

JVC

SERVICE MANUAL

PORTABLE CD SYSTEM

PC-X130 B/E/G/GI/EN



COMPACT
disc
 DIGITAL AUDIO


Area Suffix

B.....	U.K.
E.....	Continental Europe
G.....	Germany
GI.....	Italy
EN.....	Northern Europe

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1. Safety Precautions

1. The design this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacture's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety — related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of service manual. Electrical components having such features are identified by () on the schematic diagram and parts list in the service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of service manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.
5. Leakage current check (Electrical shock hazard testing)

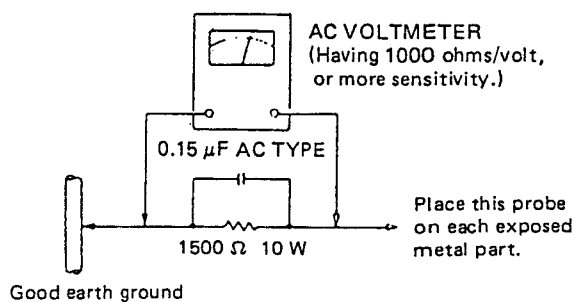
After re — assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. using a "Leakage current tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC(r.m.s.)

- Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 ohms 10W resistor paralleled by a 0.15 μ F AC type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the

chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC(r.m.s.). This corresponds to 0.5mA AC(r.m.s.).



Warning

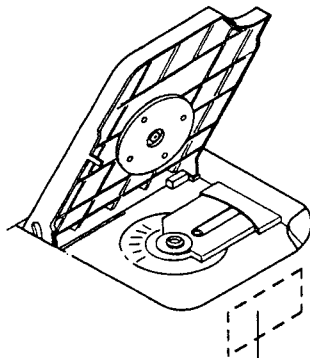
1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

2. Safety Precaution about PC – X130

IMPORTANT FOR LASER PRODUCTS (PRECAUTION)

PRECAUTIONS

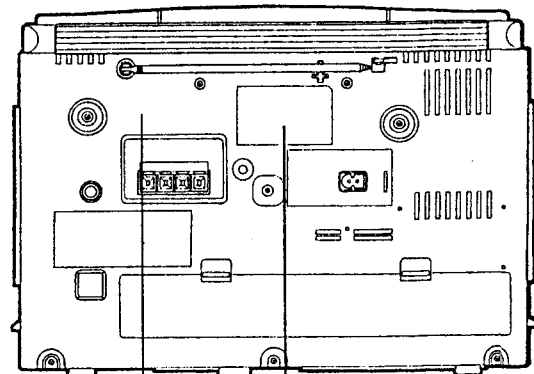
1. CLASS 1 LASER PRODUCT
2. **DANGER:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION:** Do not open the rear cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
4. **CAUTION:** The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent the emission of radiation when the CD door is open. It is dangerous to defeat the safety switches.
5. **CAUTION:** Use of controls for adjustments and the performance of procedures other than those specified herein may result in exposure to hazardous radiation.
6. **CAUTION:** The laser is able to function, if safety switches are out of function. The laser light is invisible, avoid exposure, do not disassemble the laser unit, but replace the complete unit.



ADVARSEL-Der vil udstråles
osynlig laserbestråling når
apparatet åbnes og aflås-
ningsmekanismen frigøres.
UNDGÅ AT BLIVE UDSET
FOR LASERBESTRÅLING.

**DANGER-Invisible laser
radiation when open and
interlock defeated.
AVOID DIRECT EX-
POSURE TO BEAM.**

IDENTIFICATION LABEL AND CERTIFICATION LABEL



NAME/RATING PLATE

**CLASS 1
LASER PRODUCT**

Obs:
Apparaten innehåller laser
Komponent av höger laserklass
än klass 1.

IMPORTANT (In the United Kingdom) Mains Supply (AC 240 V~, 50 Hz only)

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

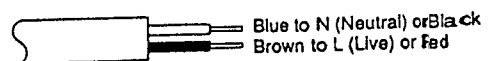
BE SURE to replace the fuse only with an identical approved type, as originally fitted, and to replace the fuse cover.

If nonetheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

IMPORTANT

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:



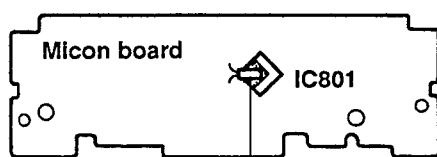
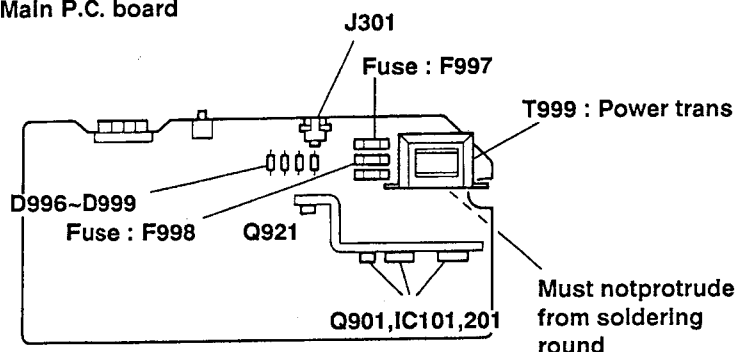
As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

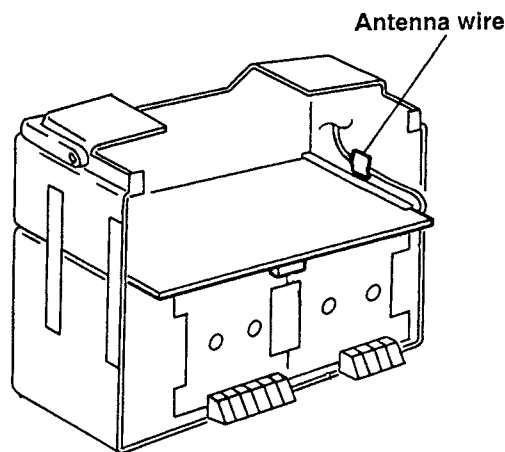
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF IN DOUBT – CONSULT A COMPETENT ELECTRICIAN.

■ Main P.C. board



Must be fixed wit Bond



■ Important points for safety management

1. Make sure of the marking "VTP57P2 — 12C (PC — X130 B/E/G/GI/EN)" on the power transformer as well as of fixing screws got tightened.
2. Make sure of the markings "SE — 1 (PC — X130 E/G/GI/EN) or SE — 5 (PC — X130 B)" on the attachment plug of the power cord, "SE — 4 (PC — X130 E/G/GI/EN) or SE — 6 (PC — X130 B)" on its connector plug and "VDE (PC — X130 E/G/GI/EN) or BS6500 (PC — X130 B)" mark on the power cord itself besides confirmation of no damage in any part of the cord.
3. Make sure of the marking "HSC1466 (PC — X130 B/E/G/GI/EN)" on the AC jack and of no gap between the jack and the board to avoid break in the circuit pattern.
4. For securing creeping distance and space interval, make sure of no excess soldering and no parts sticking out around primary terminals and adjacent secondary terminals.
5. Make sure of secure fitting of the fuse besides rating, ampere — capacity and T mark shown on its base. Especially check the rating that is accordant with the specified rating indicated on the board.

F997 : T5AL250V, F998 : T5AL250V

6. Make sure that all wires and the like are securely clamped or fixed not to near live parts, moving parts, heat generation parts and sharp — edged parts.
7. Make sure to arrange the following parts not to contact electrolytic capacitors and wires since they are heat generation parts. For inflammable parts, confirm that they don't topple down if they are lifted up. () must be controlled.

IC201, IC101, Q921, Q901, (D996), (D997), (D998), (D999), RM07.

Main Features

1. Multi-function CD player with remote control.
 - CD player with programmed play of up to 20 tunes/ repeat play/random play/intro play function.
 - 8-cm (3-3/16") "CD singles" capability.
2. 32-key remote control unit (CD and tuner operations)
 - Remote control controls power on/off switching, volume control, SEA electronic equalizer controls, Active Hyper-Bass on/off switching.
3. Active Hyper-Bass circuit for low-frequency sound reproduction.
4. 2-Band digital synthesizer tuner with 30-station (15 FM and AM (MW/LW) preset capability)
 - Seek/manual tuning
 - Auto preset tuning
 - Preset scan tuning
5. Synchro-record start for CD recording convenience.
6. Double-cassette mechanism (Deck A for recording and playback, Deck B for playback).
 - Metal and CrO₂ tapes can be played back for superior tone quality.
 - Synchro-start dubbing function (normal/high speed dubbing).
 - Relay playback (from Deck B to Deck A).
7. Timer/Clock function
 - Timer on/off with preset volume function.
 - Wake-up volume setting with 25 different levels.
 - Sleep timer can be set for up to 120 minutes.

Specifications

Compact disc player section

Type	: Compact disc player
Signal detection system	: Non-contact optical pickup (semiconductor laser)
Number of channels	: 2 channels (stereo)
Frequency response	: 20 Hz – 20,000 Hz
Signal-to-noise ratio	: 76 dB
Wow & flutter	: Less than measurable limit

Radio Section

Frequency range	: FM 87.5 – 108 MHz (B/E/G/GI/EN) MW 522 – 1,629 KHz (B/E/G/EN) LW 144 – 288 kHz (B/E/G/EN)
Antennas	: Telescopic antenna for FM Ferrite core antenna for MW and LW

Tape deck Section

Track system	: 4-track 2-channel stereo
Motor	: Electronic governor DC motor for capstan
Heads	: Deck A; Hard permalloy head for recording/playback, 2 gap permalloy head for erasure Deck B; Hard permalloy head for playback
Frequency response	: 63 – 12,500 Hz (with normal tape/normal speed)
Wow & flutter	: 0.15% (WRMS)
Fast wind time	: Approx. 120 sec. (C-60 cassette)

General

Power output	: Max. 20 W (10 W + 10 W) at 8 Ω
Output terminals	: PHONES x 1 (Output level: 0 – 12 mW/32 Ω, Matching impedance: 16 Ω – 1 kΩ)

Power supply	: AC 240 V, 50/60 Hz (PC-X130B) AC 230 V, 50/60 Hz (PC-X130E/G/EN/GI) DC 12 V ("D" cells x 8) Ext. DC 12 V (PC-X130E/EN)
Power consumption	: 35 W (with POWER SW ON) 2.6 W (with POWER SW STANDBY)
Dimensions	: 700(W) x 250(H) x 231(D) mm (27-5/8" x 9-7/8" x 9-1/8") including knobs
Weight	: Approx. 8.4 kg (18.6 lbs) with batteries Approx. 7.5 kg (16.6 lbs) without batteries
Accessories provided	: AC power cord Remote control unit (FM-FX130) Battery "AAA" x 2 (for the remote control)

Speaker Section (each unit)

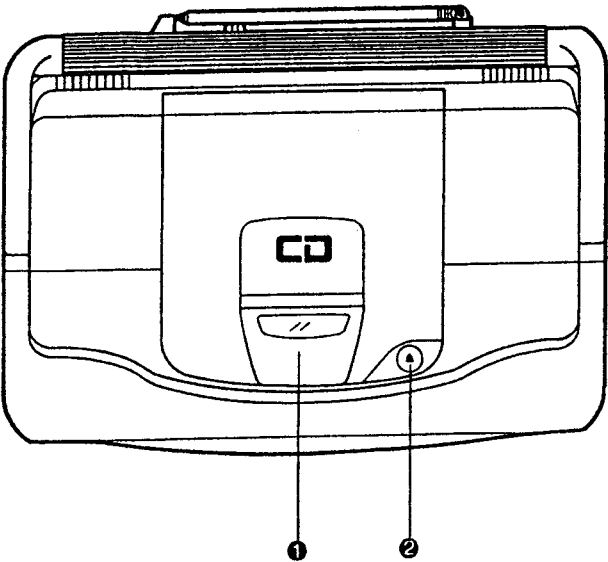
Speakers	: 10 cm (3-15/16") x 1
Impedance	: 8 Ω
Dimensions	: 180 (W) x 237 (H) 201 (D) mm (7-1/8" x 9-3/8" x 7-1/16")
Weight	: Approx. 1.6 kg (3.6 lbs)

Design and specifications are subject to change without notice.

Instructions (Extract)

NAMES OF PARTS AND THEIR FUNCTIONS

• Top panel



- 1 Disc holder
- 2 Disc holder open button (▲)

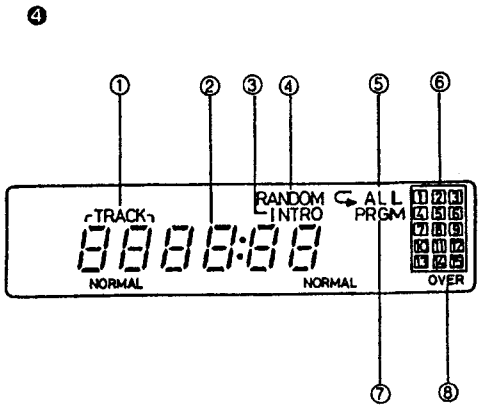
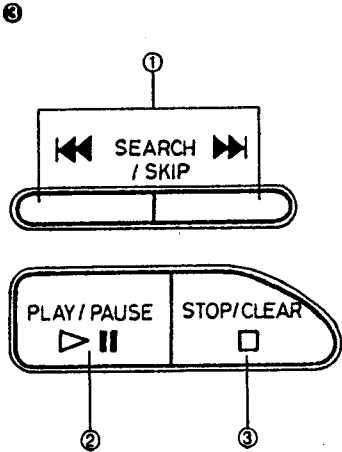
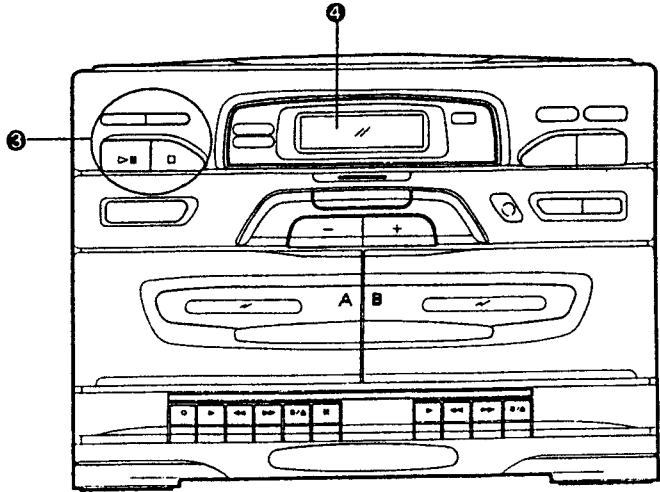
3 CD operation buttons

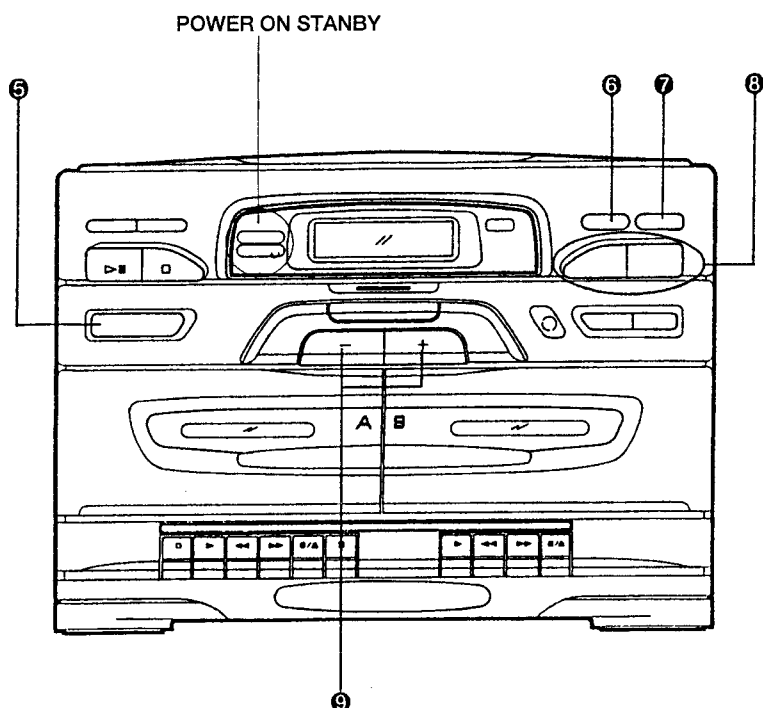
- 1 SEARCH/SKIP (◀◀/▶▶) buttons
- 2 PLAY/PAUSE (▶||) button
- 3 STOP/CLEAR (◻) button

4 Display window (CD player section)

- 1 Function/Track number display
- 2 Playback time display
- 3 INTRO scan indicator
- 4 RANDOM playback indicator
- 5 Repeat playback indicator (◀ ALL)
- 6 Music calendar display
- 7 PRGM mode indicator
- 8 OVER indicator

• Front panel



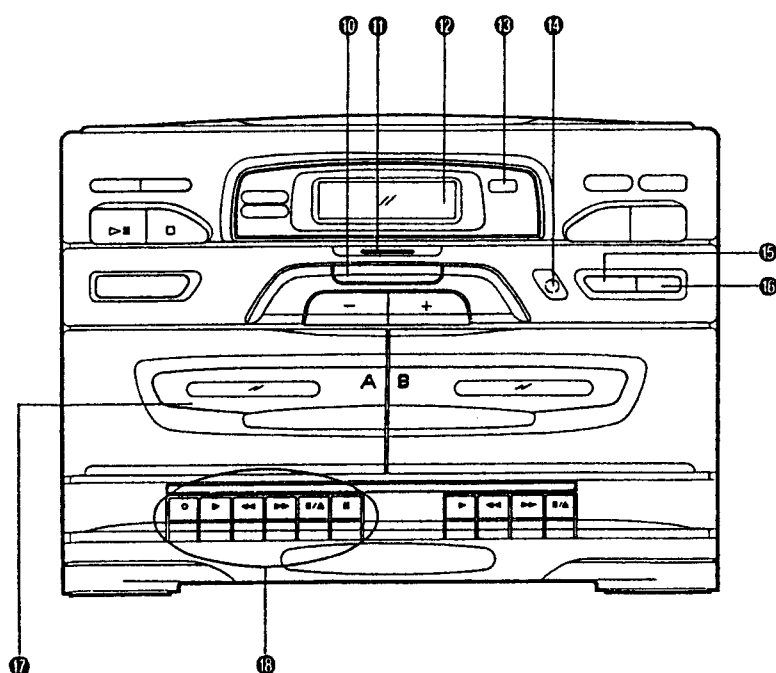


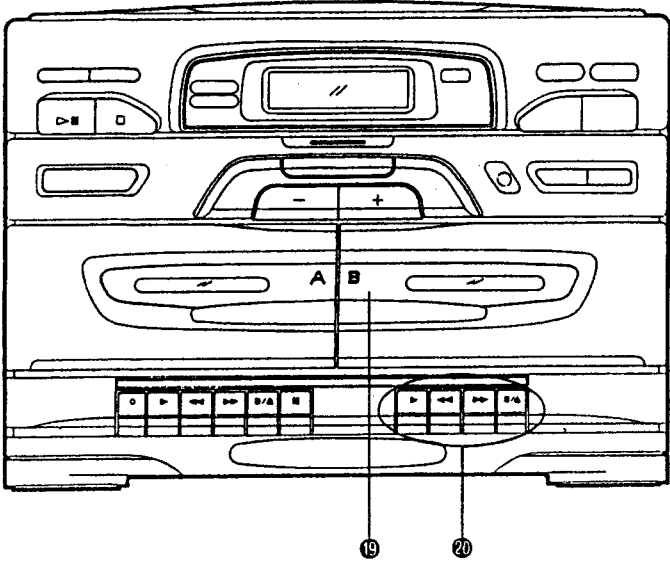
- 5 POWER button
- 6 PRESET SCAN button
AUTO PRESET button
- 7 TUNER (BAND/FM MODE) button
- 8 Tuning (Time adjustment) buttons
DOWN frequency/Hour or minute
UP frequency/Hour or minute
- 9 VOLUME buttons
+: Use to increase the volume or tone (SEA).
-: Use to decrease the volume or tone (SEA).
(The level can be changed from VOL 0 to VOL 25.)

- 10 ACTIVE HYPER-BASS button
on: The ACTIVE HYPER-BASS indicator will light.
Set to this position to listen to the ACTIVE HYPER-BASS sound
off: The ACTIVE HYPER-BASS indicator goes out.
Set to this position when the ACTIVE HYPER-BASS sound is not required.
- 11 ACTIVE HYPER-BASS Indicator
• Blinks when the VOLUME button is operated.
- 12 Display window
(Tuner section)
Band indicator (FM/AM) (MW/LW)
Radio frequency display
MONO indicator
STEREO indicator
Preset station display
(Tape deck/amplifier section)

Tape mode display
NORMAL tape Indicator
CrO₂/METAL tape indicator
NORMAL speed indicator
HIGH speed indicator
Recording indicator (REC)
(Timer/Clock section)
(See page 44)

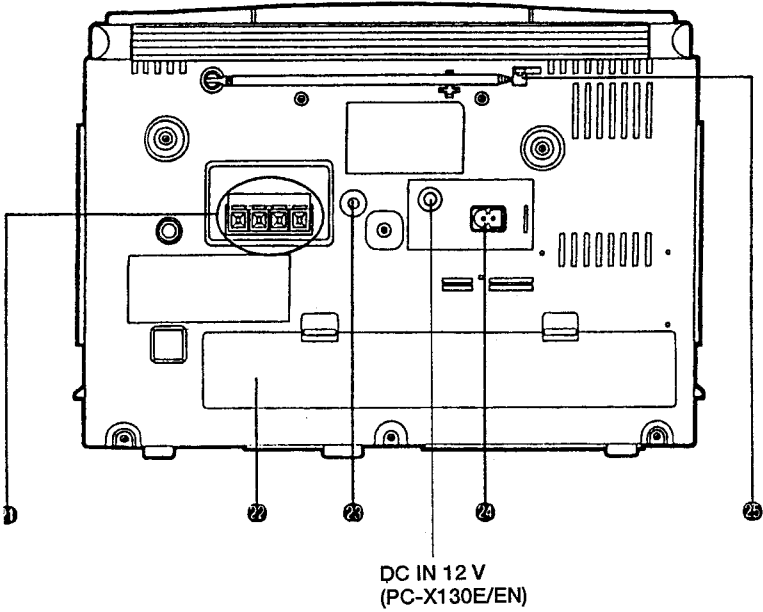
- 13 REMOTE SENSOR section
- 14 SEA ELECTRONIC EQ (FREQUENCY) button
Used to select the electronic equalizer frequency band (100 Hz/1 kHz/10 kHz) to be adjusted with the VOLUME button. (The level setting ranges are from -5 to 5.)
- 15 TAPE (FOR PLAYBACK) switch
Set this switch according to the type of tape to be used.
CrO₂-METAL: (playback only)
Set to this position to listen to a metal (type IV) or chrome (type II) tape.
NORMAL:
Set to this position to listen to a normal (type I) tape.
- 16 DUBBING SPEED switch
HIGH:
Set to this position when dubbing at high-speed.
NORMAL:
Set to this position when dubbing at normal-speed.
- 17 Cassette holder (Deck A)
- 18 Cassette operation buttons (Deck A)
○ REC:
Press this button with the ► PLAY button to start recording.
► PLAY:
Press to play the tape.
◄◄ REW:
Press to rewind the tape rapidly.
►► FF:
Press to wind the tape forward rapidly.
■/▲ STOP/EJECT:
Press to stop the tape. Pressing this button when the tape has stopped opens the cassette holder.
|| PAUSE:
Press to stop the tape momentarily. Press again to release the pause mode.





- 19 **Cassette holder (Deck B)**
- 20 **Cassette operation buttons (Deck B)**
 - ▶ **PLAY:**
Press to play the tape.
 - ◀◀ **REW:**
Press to rewind the tape rapidly.
 - ▶▶ **FF:**
Press to wind the tape forward rapidly.
 - /▲ **STOP/EJECT:**
Press to stop the tape. Pressing this button when the tape has stopped opens the cassette holder.

• **Rear panel**



- 21 **SPEAKER terminals**
Connect the provided speakers to these terminals.
- 22 **Battery compartment cover**
- 23 **Headphones jack (PHONES) (3.5 mm dia. stereo mini)**
Connect headphones (impedance 16 Ω - 1 k Ω) to this jack. The speakers are automatically switched off when the headphones are connected.
- 24 **AC IN (AC Input) jack**
- 25 **Telescopic antenna**

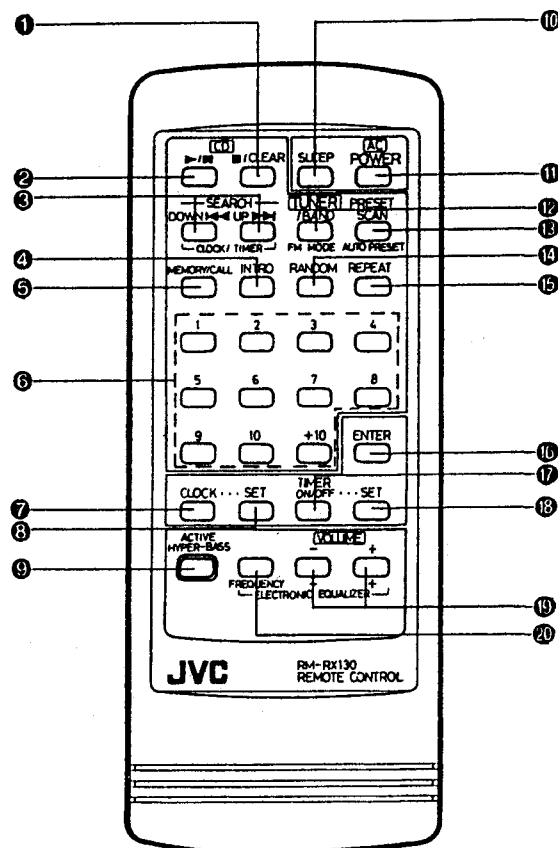
DC IN 12 V
(PC-X130E/EN)

REMOTE CONTROL UNIT

The following operations can be performed using the remote control unit.

- Check the functions of the operation buttons carefully and operate them correctly.

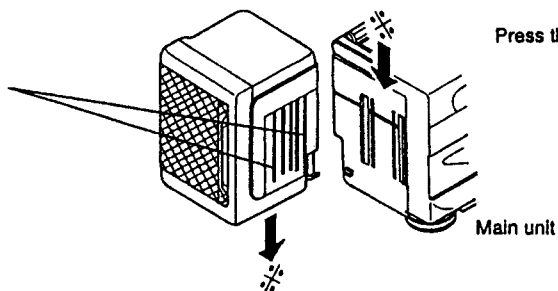
- ① ■/CLEAR: Stop/clear button
- ② CD ►/II: CD mode/play/pause button
- ③ CD search/DOWN and UP buttons (◀◀, ▶▶)
 - In the CD mode, to scan to the beginning of a tune and to start forward or reverse search.
 - In the tuner mode, to tune to broadcasts. (Also used to set the time and timer.)
- ④ INTRO button
- ⑤ MEMORY/CALL button
- ⑥ Track (tune) number buttons (No. 1 – No. 10, +10)
Preset station buttons (No. 1 – No. 10, +10)
- ⑦ CLOCK button
- ⑧ CLOCK SET button
- ⑨ ACTIVE HYPER-BASS button
- ⑩ SLEEP button
- ⑪ POWER (AC) button
 - When power is supplied from the batteries, even when the button is pressed, the PC-X130 will not be switched on.
- ⑫ TUNER/BAND button
- ⑬ FM MODE button
- ⑭ PRESET SCAN button
- ⑮ AUTO PRESET button
- ⑯ RANDOM button
- ⑰ REPEAT button
- ⑱ ENTER button
- ⑲ TIMER ON/OFF button
- ⑲ TIMER SET button
- ⑲ VOLUME buttons
 - +: Use to increase the volume or tone (SEA).
 - : Use to decrease the volume or tone (SEA).
- ⑳ FREQUENCY (ELECTRONIC EQUALIZER) button



ATTACHING/DETACHING THE SPEAKERS

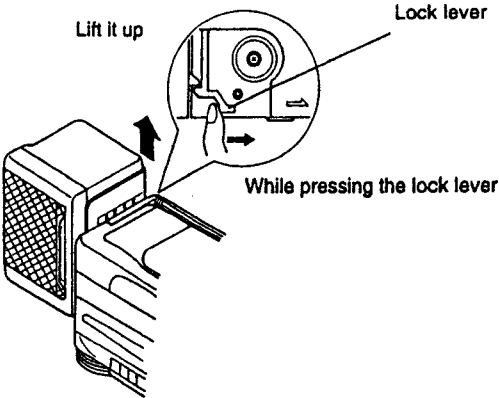
When using the speakers attached to the main unit
Hold with the bottom of the speaker against the top of the main unit and press down on the speaker to attach it.

Speaker slot



Press the speaker down with the speaker and main unit aligned.

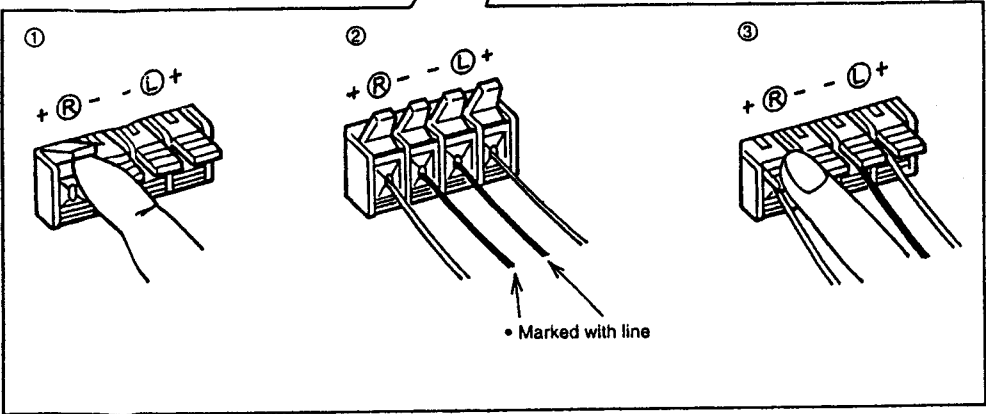
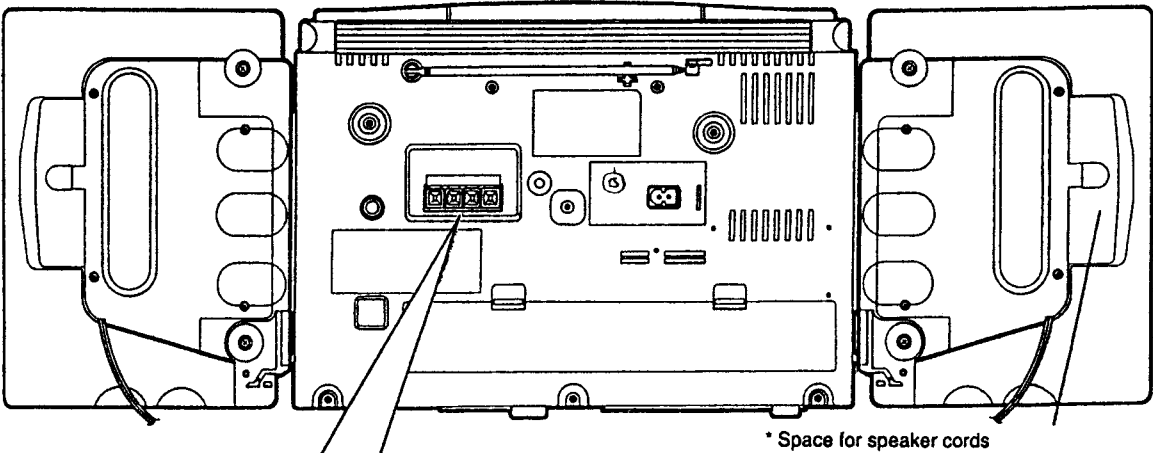
When using the speakers detached from the main unit
Lift the speaker up to detach from the main unit by pressing the lock lever at the rear bottom of speaker in the direction of the arrow.



Note:
Since the speakers sound differently according to where they are placed, carefully place them for optimal effect within the length of the provided speaker cords. It is recommended that the left and right speakers be placed symmetrically in relation to the main unit.

CONNECTIONS

- Do not switch the power on until all the connections are completed.
- * After connecting the speaker cords, bundle any slack into the space for the speaker cords in the rear panel.
- When connecting the speaker cords, connect the one marked with a line to the “-” terminal first.

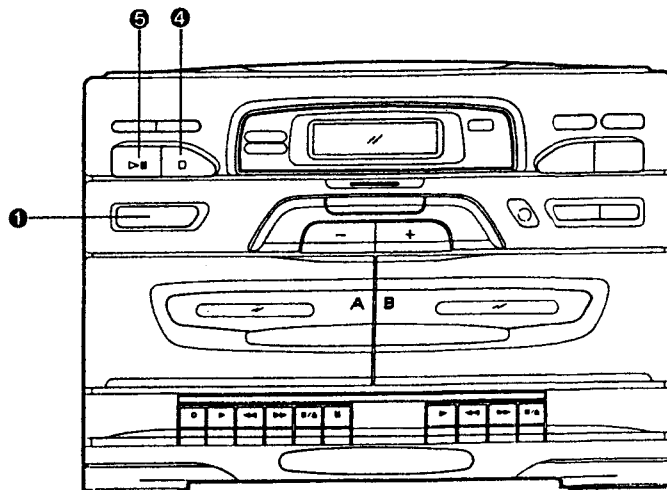
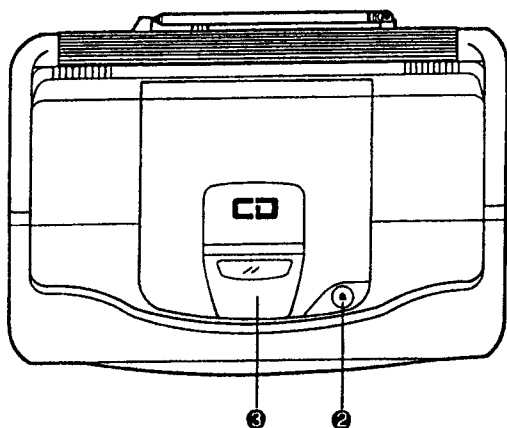


PLAYING COMPACT DISCS



Playing an entire disc ... The following example assumes a compact disc with 12 tunes and a total playing time of 48 minutes 57 seconds.

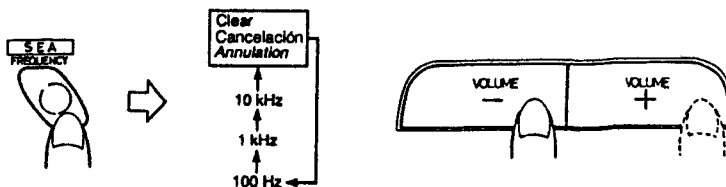
Operate in the order shown



- 1 Set the POWER button to on.
- 2 Press to open the Disc holder.
- 3 Load a disc with the label side facing up and close the Disc holder.
- 4 Set to the CD mode.
 - If the PLAY button of deck A or B is pressed, press the STOP/EJECT (■/▲) button to set to the stop mode.
 - When a CD is first loaded, the total number of tracks (tunes) and total playing time are displayed.
- 5 Press to start play.
 - As tunes are played, their track numbers go out one by one.
- 8-cm (3-3/16") compact discs can be used in this unit without an adapter.

To adjust the SEA (FREQUENCY) electronic equalizer

Press the SEA (FREQUENCY) button to select the graphic equalizer frequency band (100 Hz/1 kHz/10 kHz) to be adjusted. Within about 5 seconds, press the VOLUME button (+/-) to adjust the level within a range of -5 to 5. (Level should be adjusted in each frequency band.)



To stop play

- **To stop in the middle of a disc**
During playback, press the STOP/CLEAR (□) button to stop play.



- **To stop a disc temporarily**
Press the PLAY/PAUSE (▶||) button to stop play temporarily. When pressed again, play resumes from the point where it was paused.

Caution:

- To change discs, press the STOP/CLEAR (□) button; check that the disc has stopped rotating completely before unloading it.

Notes:

- The following indication may be shown when a disc is dirty or scratched, or when the disc is loaded upside down.
In such a case, check the disc and insert again after cleaning the disc or turning it over.



- Do not use the unit at excessive high or cold temperatures. The recommended temperature range is from 5°C (41°F) to 35°C (95°F).
- After playback, unload the disc and close the Disc holder.
- If mistracking occurs during play, lower the volume.
- Mistracking may occur if a strong shock is applied to the unit or if it is used in a place subject to vibrations (i.e. in a car travelling on a rough road).

Skip playback

- During playback, it is possible to skip forward to the beginning of the next tune or back to the beginning of the tune being played or the previous tune; when the beginning of the required tune has been located, play starts automatically.

To listen to the next tune ...

Press the ▶| button once to skip to the beginning of the next tune.

To listen to the previous tune ...

Press the ◀| button to skip to the beginning of the tune being played back and press again to skip to the beginning of the previous tune.

Search playback (to locate the required position on the disc)

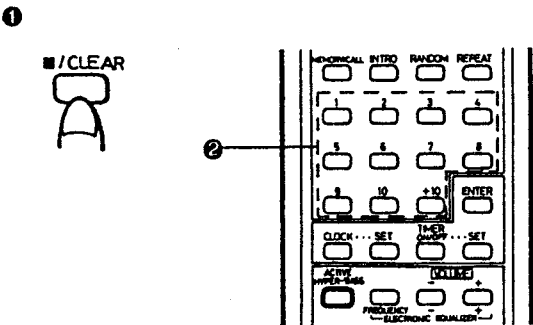
- The required position can be located using fast-forward or reverse search while playing a disc.



- Hold down the button; search play starts slowly and then gradually increases in speed.
- Since low-volume sound (at about one quarter of the normal level) can be heard in the search mode, monitor the sound and release the button when the required position is located.

Direct access playback (using the remote control)

- Pressing any of the track number buttons will start playing from the beginning of the designated tune, without your having to press the CD ▶| button. (This function cannot be used during programmed play.)



- 1 Press the ■/CLEAR button to set to the CD mode.
 - If the PLAY button of the deck A or B is pressed, press the STOP/EJECT (■/▲) button to set to the stop mode.
 - 2 Designate the required tune using the track number buttons.
 - To designate tune numbers 1 to 10, press the track number button corresponding to the tune (track) number.
 - To designate tune number 11 or higher, press the +10 button the required number of times, then the track number button. (Example: To designate the 25th tune, press the +10 button twice, then press track number button 5.)
- * +10 button:
Each time this button is pressed, the number increases by 10. First press this button to set the 10's digit, then press the track number button to set the 1's digit.

- **To skip to another tune during play**
When the required track number button is pressed, the display shows the designated track number and play starts from the beginning of the designated tune.

Programmed play (using the remote control)

- Up to 20 tunes can be programmed to be played in any required order.

The total playing time of programmed tunes is displayed (up to 99 minutes, 59 seconds).

(Example: When programming the 2nd tune to be played first, the 6th tune next, and then the 12th tune, etc.)

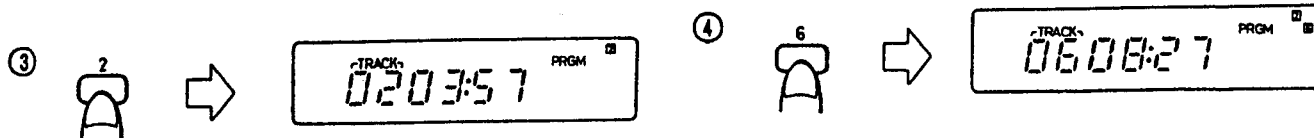
- Press the /CLEAR button.
- Press the MEMORY button to set to the programming mode.
- Press to designate the required track number.
- Designate the remaining tunes by pressing the track number buttons.
- Press the /II button when programming is completed. Programmed playback starts.

To clear the programmed tunes ...

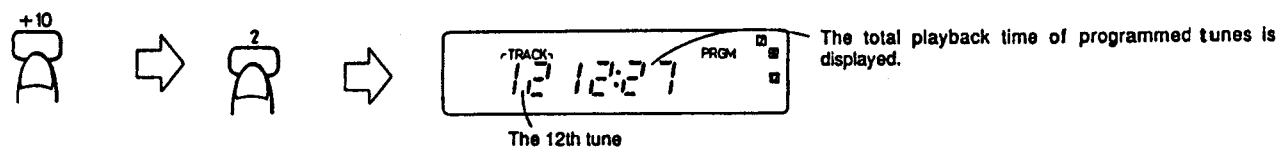
Press the /CLEAR button before playing a disc. During programmed playback, press this button twice. When the Disc holder is opened, programmed tunes are cleared automatically.



To designate the 2nd tune.

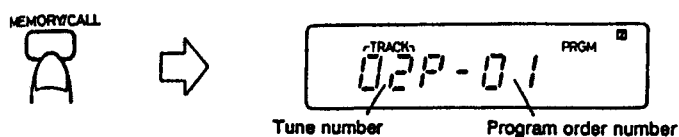


To designate the 12th tune.



To confirm the details of a program ...

Press the MEMORY/CALL button; the tunes making up the program will be displayed in programmed order.



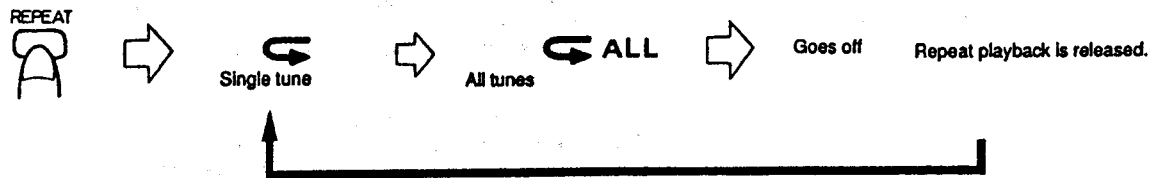
Notes:

- If the total playing time of the programmed tunes exceeds 99 minutes 59 seconds, the total playing time indication will go out.
- It is not possible to program more than 20 tunes.
- When a disc with 16 or more tunes is loaded, the "OVER" indicator will appear.
- When performing timer playback in the order of "Programmed play", step ⑤ above is not required.

Repeat play (using the remote control)

Press the REPEAT button before or during play. A single tune or all the tunes can be repeated.

Whether a single tune or all tunes are to be repeated can be specified. Each time the REPEAT button is pressed, the mode will change from a single tune (≡), to all the tunes (≡ ALL), to the clear mode, in this order.



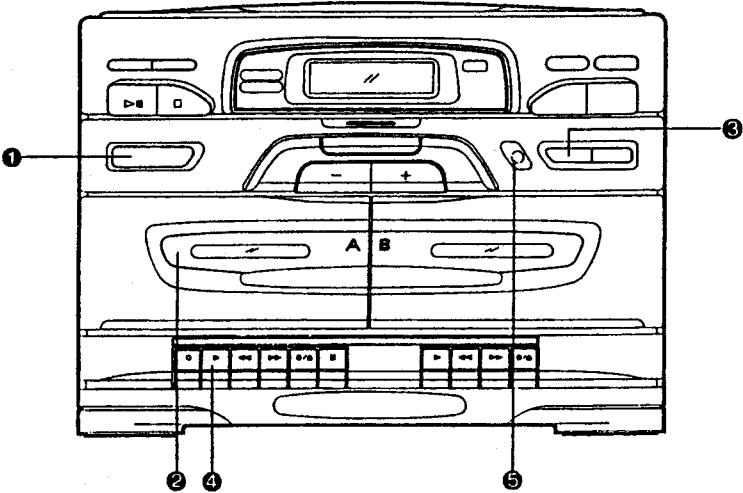
- Repeat playback of a single tune (≡)
The tune being played back will be heard repeatedly.



CASSETTE PLAYBACK

(The example shows Deck A)
Operate in the order shown

- Repeat playback of all tunes (≡ ALL)
When playing back an entire disc or programmed tunes, all tunes or the programmed tunes will be heard repeatedly.



- 1 Set the POWER button to on.
- 2 Load a cassette.
- 3 Set the TAPE switch as required.
- 4 Press to start playback.
- 5 Adjust.

- Playback in Deck B
The previous procedures 1 through 4 also apply to Deck B when a cassette is loaded in Deck B. When Decks A and B are simultaneously set to the play mode, only the playback sound of Deck B is heard.

- Notes:
1. When the power is turned off while the tape is still running, cassette operation buttons which are depressed do not return to the original positions. Press the STOP/EJECT (■/▲) button to stop the tape running before turning off the power.
 2. Avoid operating the FF or REW button on the deck during playback of the other deck.

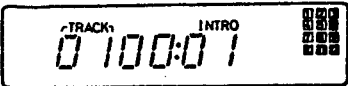
Random playback (using the remote control)

Press the RANDOM button, all tunes on a disc are played once, in random order.



INTRO scan operation (using the remote control)

- Simply press the INTRO scan button to play the first 15 seconds of each tune. The operation is released after playing the introductions of all tunes or all programmed tunes.
- If the INTRO scan button is pressed in the middle of a tune, the intro scan operation will start from the next tune.
- To release the intro scan mode, press the INTRO scan button again and normal playback (or programmed playback) will resume.

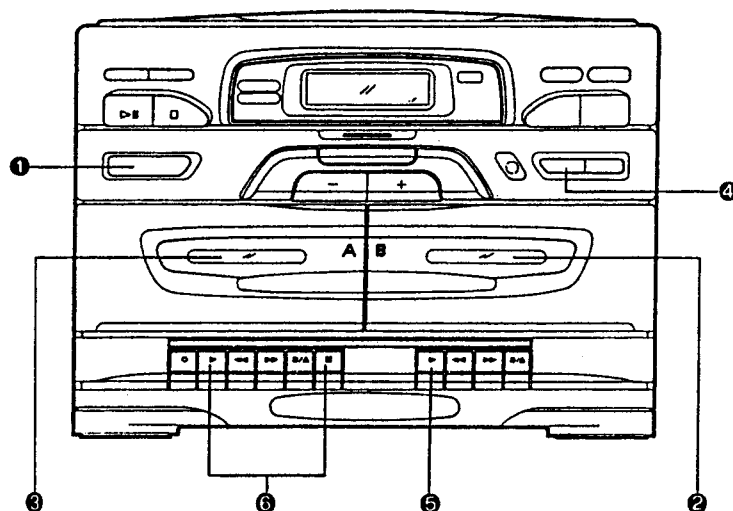


RELAY PLAYBACK



(From Deck B to Deck A)

Operate in the order shown



- ① Set the POWER button to on.
- ② Load a cassette.
- ③ Load a cassette.
- ④ Set the TAPE switch as required.
- ⑤ Press the ► PLAY button on Deck B.
- ⑥ Set Deck A to the play-pause mode.

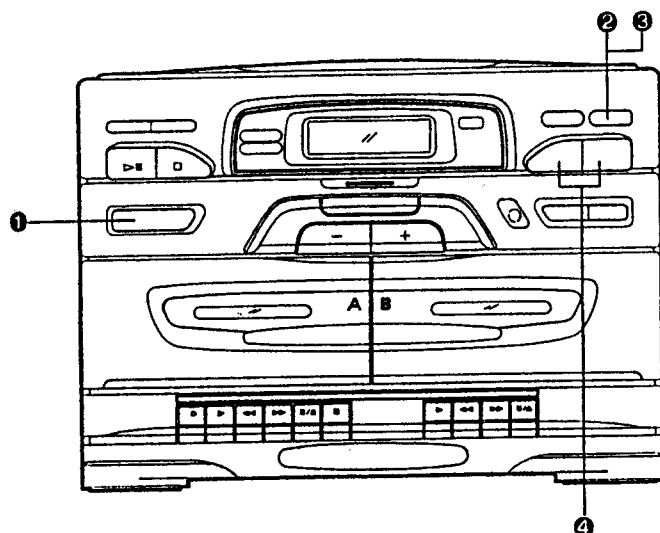
When Deck B stops, Deck A's pause mode will be released and it will start playback. When Deck A stops automatically, relay playback will be released.

Note:
Use the same type of tape in Decks A and B during this mode.

RADIO RECEPTION



Operate in the order shown



FM MODE button

Auto mode:

Set to this position when listening to or recording an FM stereo broadcast. The STEREO indicator lights when a FM stereo broadcast is received.

MONO:

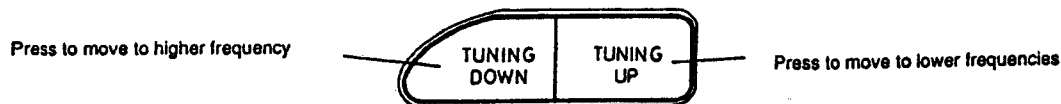
Set to this position when FM stereo reception is noisy. When another station is tuned to in the MONO mode using the TUNING UP/DOWN or PRESET SCAN/AUTO PRESET button, the unit automatically enters Auto mode.

- **Seek tuning**
Press the UP or DOWN button for one second or more; the unit enters the seek tuning mode and tunes to higher or lower frequencies, and when the broadcast is received, it stops tuning automatically and the broadcast can be heard.

- ① Set the POWER button to on.
- ② Press the TUNER/BAND button; a band and radio frequency will be shown in the display.
 - If the PLAY button of the deck is pressed, press the STOP/EJECT (■/▲) to set to the stop mode.
- ③ Select the band/FM mode (FM auto, FM MONO or AM) (MW/LW).
- ④ Tune to the required station.

- **Manual tuning**

Each time the UP or DOWN button is pressed, the unit steps through the current frequency band. Tuning is in steps of 100 kHz for FM and 10 kHz for AM (MW/LW).



Notes:

- When seek tuning to the required station is not possible because it is broadcasting too weak a signal, press the UP or DOWN button momentarily to perform manual tuning.
- When the power is set to STANDBY, or another mode (TAPE or CD) is selected, the last tuned frequency is stored in memory. When the power is switched on again and TUNER/BAND button is pressed, the same station will be heard.

Auto preset tuning

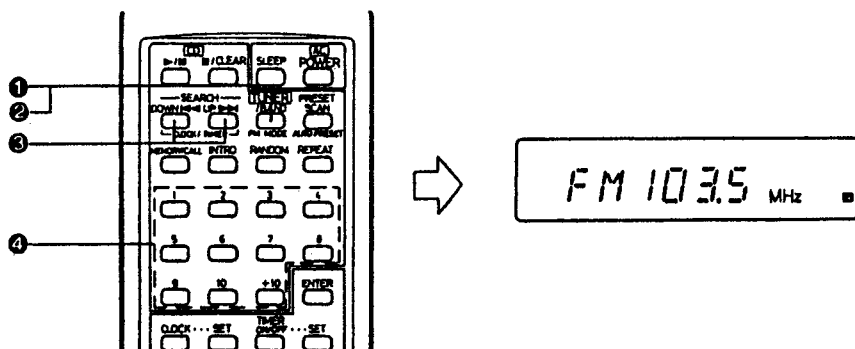
This function scans the current band (FM or AM (MW/LW)), detecting frequencies used to broadcast signals, and stores the first 15 frequencies in memory automatically.

- Press the **AUTO PRESET** button for more than 2 seconds. The frequencies of stations broadcasting signals can be preset automatically in the order of increasing frequency. (15 stations in each band (FM and AM (MW/LW))).

Presetting stations (using the remote control unit)

15 stations in each band (FM and AM (MW/LW)) can be preset as follows:

- **Example (when presetting an FM station broadcasting at 103.5 MHz to preset button "15")**



- ① Press the TUNER/BAND button.
 - ② Select the FM band using the TUNER/BAND button.
 - ③ Tune to the required station.
 - ④ Press preset button "+10", then "5" for more than 2 sec. (When "15" blinks in the preset station display, the station has been preset.)
- Repeat the above procedure for each of the other stations, using a different preset button each time.
 - Repeat the above procedure for the AM (MW/LW) band.
 - **To change preset stations**
Perform step ④ above after tuning to the required station.

Notes:

- The previous preset station is erased when a new station is set as the new station's frequency replaces the previous frequency in memory.
- When listening to an AM broadcast, noise may be heard if the remote control is used.

Preset tuning (using the remote control unit)

- The stations must be preset before this operation can be performed.
- ① Press the TUNER/BAND button.
- ② Select the band (FM or AM (MW/LW)) using the TUNER/BAND button.
- ③ Press the required preset station buttons (No. 1 – No. 10, +10).
- The preset station number and frequency corresponding to the button pressed are shown.

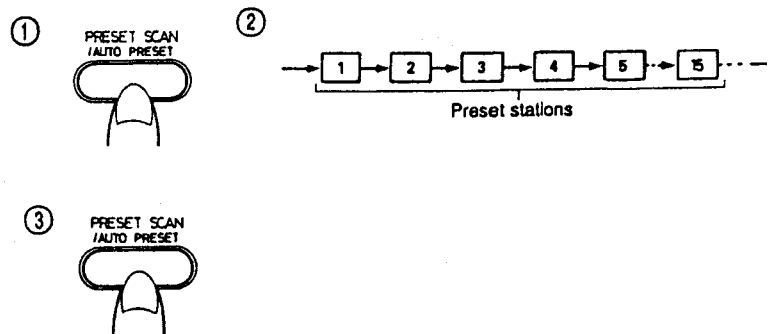
Preset scan button tuning

- This makes it possible to automatically scan preset FM and AM stations.

- ① Press the PRESET SCAN button.
- ② Scanning is performed in the order of preset station in each frequency band (FM and AM (MW/LW)). Each preset station is heard for approx. 5 seconds.
- ③ When the required station is heard and its frequency is blinking, press the PRESET SCAN button again.

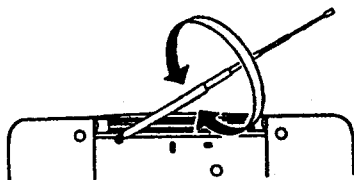
Note:

Up to 15 broadcast stations in each band can be preset on the PC-X130. If the preset scan operation is performed without all 15 stations having been preset, noise may be heard under certain conditions when non-preset stations are scanned.

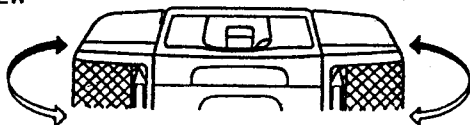


Using the antennas

FM



MW or LW



Note:

The built-in ferrite core antenna can pick up interference from television receivers in the neighborhood and thereby disturb AM (MW/LW) reception.

RECORDING



- In recording, the ALC circuit automatically optimizes the recording level; adjustment of the recording level is unnecessary.
- Check that the safety tab on the cassette tape is not broken off.

Notes:

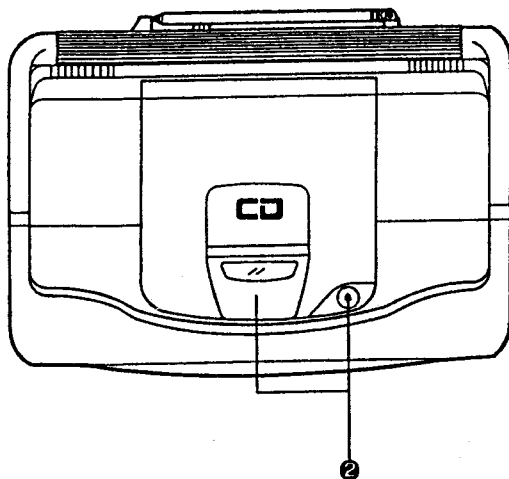
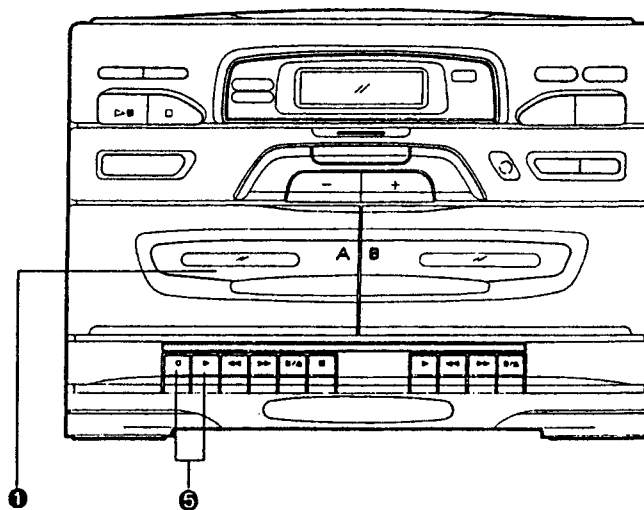
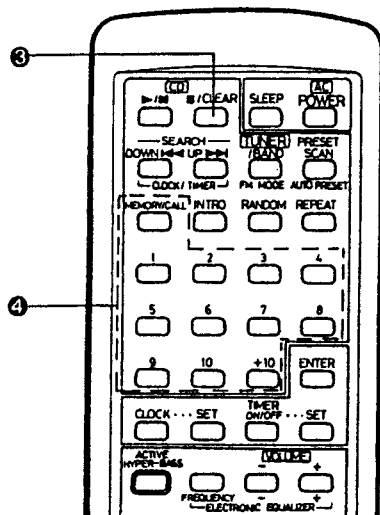
1. The recording characteristics of this unit are those of normal tape. Normal tape has different characteristics from CrO₂ and metal tapes.
2. Do not operate any button on deck B during recording.

It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable programme and in any literary, dramatic, musical, or artistic work embodied therein.

Synchronized recording with the CD player

- In this system, the CD player starts playback when Deck A enters the recording mode.

Operate in the order shown

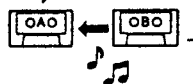


- Load a cassette tape in deck A
 - Load a disc and close the Disc holder.
 - Set the CD mode.
 - When the ► PLAY button of deck is pressed, press the STOP/EJECT (■/▲) button to set to the stop mode and perform this operation.
 - When programmed playback is required, program the required tunes using the remote control. (See page 27.)
 - Select tunes with a total playing time which does not exceed the tape length.
 - Press the ○ REC button with the ► PLAY button; synchronized recording will start.
- Non-recorded sections of approx. 4 seconds are automatically left between tunes.
 - When the tape reaches the end first, the CD player stops automatically; when the CD player stops first, the tape continues running. In this case, press the ■/▲ STOP/EJECT button to stop the tape.
 - When automatic spacing between tunes is not required ...

Perform the following after finishing the previous operation (1 to 4).

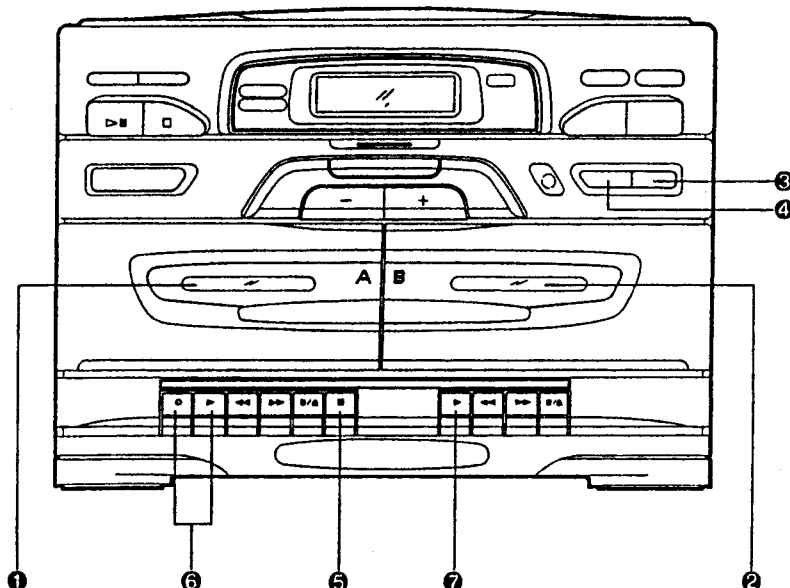
 - Press the ►|| PLAY/PAUSE button of the CD player twice. The CD player enters the pause mode.
 - Press the ○ REC and ► PLAY buttons simultaneously. Now, the CD player starts playback simultaneously.

DUBBING (SYNCHRO START DUBBING)



Normal and high-speed dubbing can be done from Deck B to Deck A.

Operate in the order shown



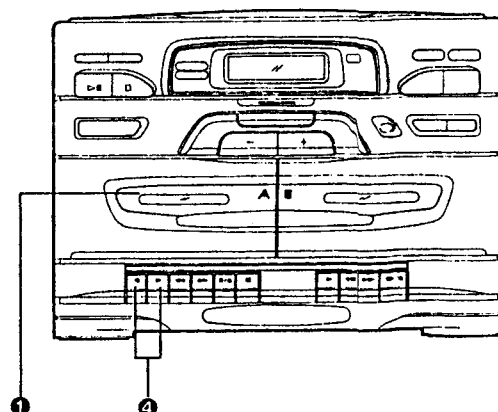
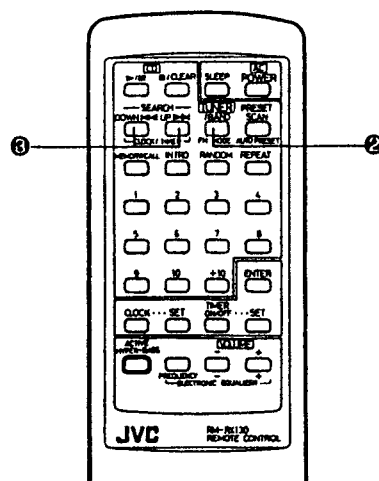
- ❶ Load a cassette tape in deck A. (Refer to the note on page 38.)
- ❷ Load a pre-recorded cassette tape in deck B.
 - Slightly press the ► PLAY button to set to TAF mode. (The button should not be locked.)
- ❸ Set to NORMAL SPEED or HIGH SPEED.
- ❹ Set to correspond to the type of tape in Deck B.
- ❺ Press the || PAUSE button.
- ❻ Press the ○ REC button with the ► PLAY button (Record-pause mode.)
- ❼ Press the ► PLAY button. (Synchronized dubbing will start.)

Notes:

1. Television receivers placed close to this unit may cause interference on the recorded signal when this unit is used in the high-speed dubbing mode. If this happens, either turn off the television receiver or use the normal speed dubbing mode.
2. With Deck A in the record-pause mode, the || PAUSE button is released when Deck B enters the stop mode.

Recording from the radio

Operate in the order shown



Erasing

When recording on a pre-recorded tape, the previous recording is automatically erased and only the new material can be heard when the tape is played.

To erase a tape without making a new recording ...

Slightly press the ► PLAY button of the deck to set to the TAPE mode and press the ○ REC and ► PLAY buttons together after pressing the stop button.

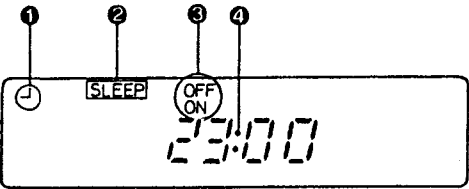
- ❶ Load a cassette. (Deck A)
- ❷ Press the TUNER/BAND button.
- ❸ Tune to the required station.
- ❹ Press the ○ REC button with the ► PLAY button.

- To stop recording temporarily, press the || PAUSE button. To resume recording, press the || PAUSE button again.

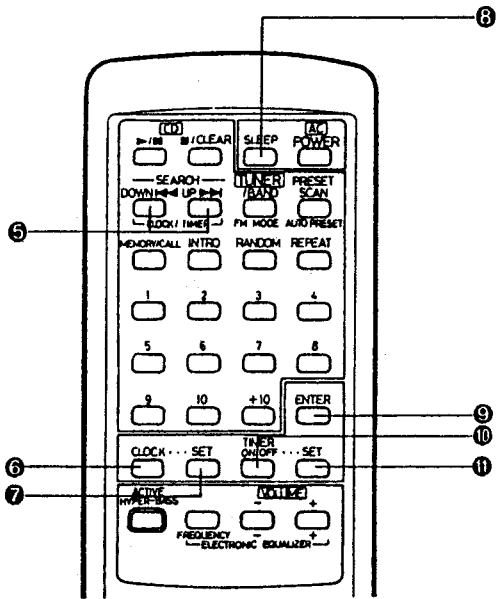
CLOCK ADJUSTMENT

(Using the remote control)

Names of parts in the clock/time section, and their functions:



- ① Timer mode indicator
- ② SLEEP indicator
- ③ Timer indicator (ON/OFF)
- ④ Time display
- ⑤ DOWN/UP button
(Used to set the time and timer)
- ⑥ CLOCK button
- ⑦ CLOCK SET button
- ⑧ SLEEP button
- ⑨ ENTER button
- ⑩ TIMER ON/OFF button
- ⑪ TIMER SET button



Setting the current time
(when the PC-X130 is used first time)

(Example: to set the clock to PM 1:15)

①

②

③

④

⑤

⑥

① Connect the AC power cord; "AM 12:00" will blink in the display.

- Set the POWER button to on.

② Press the CLOCK SET button; the hour's digits will blink.

③ Set to PM 1:00 by pressing the UP/DOWN buttons.

④ Press the ENTER button; the minute's digits will blink.

⑤ Set to PM 1:15 by pressing the UP/DOWN buttons.

⑥ Press the ENTER button; the time will light in the display.

• Each time the hour's digits change from 11 to 12, the display alternates between AM and PM. (12 midnight is indicated as "AM 12:00" and 12 noon is indicated as "PM 12:00")

• To set to the nearest second ...
Press the ENTER button when you hear the time signal from a TV or radio.

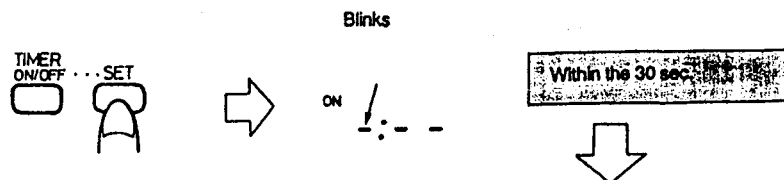
Notes:

- Before performing timer recording or playback, it is necessary to set the current time.
- Press the CLOCK button to display the current time during CD play, tape play or radio reception. The current time will be displayed for 10 seconds after which the display returns to the previous mode.

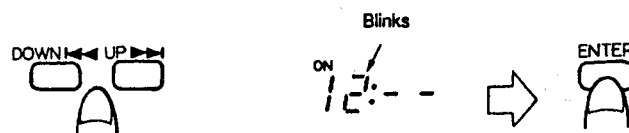
TIMER OPERATIONS

Setting the timer

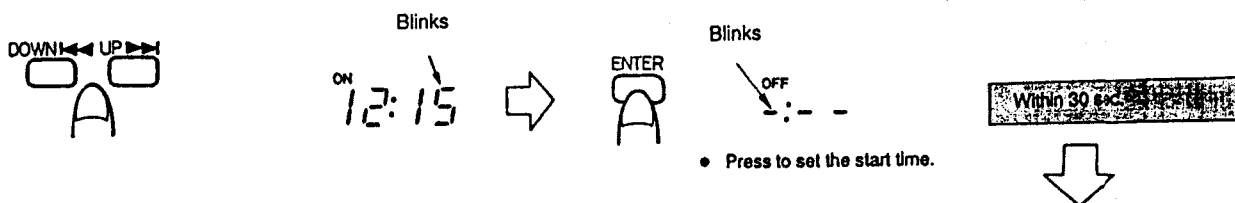
- The current time must be set before the timer can be used.
- 1 Set the POWER button to on.
- 2 Press the TIMER SET button.



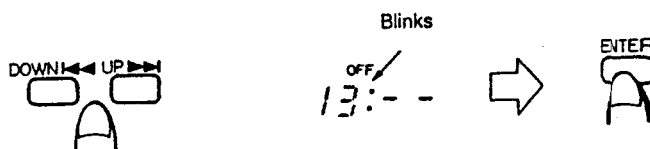
- 3 Set the start time.
(Example: when the timer start time is set to PM 12:15)
- 1 Adjust the hours.



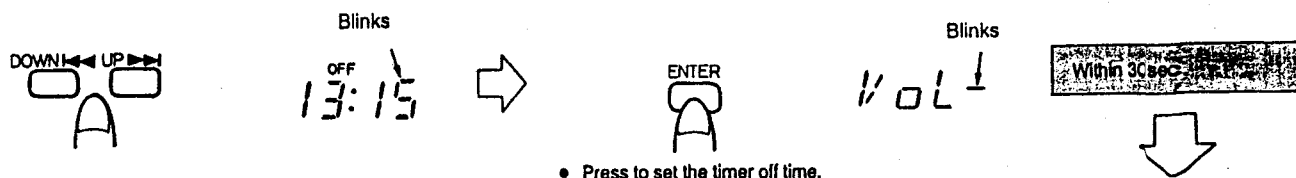
- 2 Adjust the minutes.



- 4 Set the stop time.
(Example: when the timer stop time is set to PM 1:15)
- 1 Adjust the hours.



- 2 Adjust the minutes.



• Press to set the timer off time.

- 5 Set the volume.

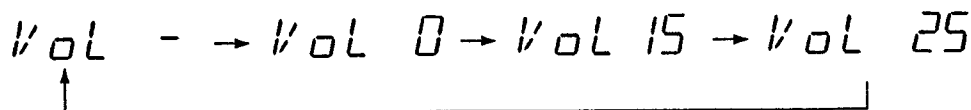


This shows when volume level 15 is selected.

• The selected volume is set.

The playback level is determined by the position of VOLUME control.

When the UP button is used to select the volume



The volume decreases to zero at the timer start time, and the sound fades in.

- The unit enters the previously engaged mode and timer setting is completed.

• **To check the timer setting**

1. Press the TIMER ON/OFF button.
2. When the previous engaged mode is displayed, timer setting has been completed.



Notes:

- When the timer is set incorrectly or the correct mode is not selected, perform "Setting the timer" from the beginning.
- When the timer is set, "--:--" in the display is replaced by the input digits.
- When the timer stop time is not set, the timer operates for 2 hours and then the unit is switched off. To continue listening after the timer stop time, display the timer stop time, change the hours digits to "--:" using the UP button and press the ENTER button.

Timer recording

- The current time must be set correctly before you set timer recording.
- Make sure that the erase protection tabs of the cassette have not been broken off.


Operations

1. Set the POWER button to on.
2. Load a cassette in Deck A.
 - Insert the cassette with the side to be recorded facing out.
3. Set the timer start and stop times, then set the required volume, in this order. (Refer to "Setting the timer" on page 46.)
 - Set the timer about a minute before the broadcast to be recorded is scheduled to start.
4. Press the TUNER/BAND button.
 - Tune to the station to be recorded. (Refer to page 33.)
5. Set the POWER button to STANDBY.
6. Press the  REC and  PLAY buttons of deck simultaneously.

Note:

Timer recording will start at the preset start time. The power will not be switched off at the timer-off time during tape operation, but will be switched off when the tape ends.

• **To cancel timer operation**

Set the POWER button to on, then press the TIMER ON/OFF button so that the timer mode indicator () goes out.

If you do this, timer recording will not start at the timer start time.

Note:

Once the timer has been set, the start and stop times, etc., are stored in memory. When timer recording or playback is required at different times, the timer must be set again.


- After setting the timer start and stop times, check that the unit is tuned to the required frequency.


Timer playback

- Timer playback of tapes, broadcasts and CDs is possible.

Operations

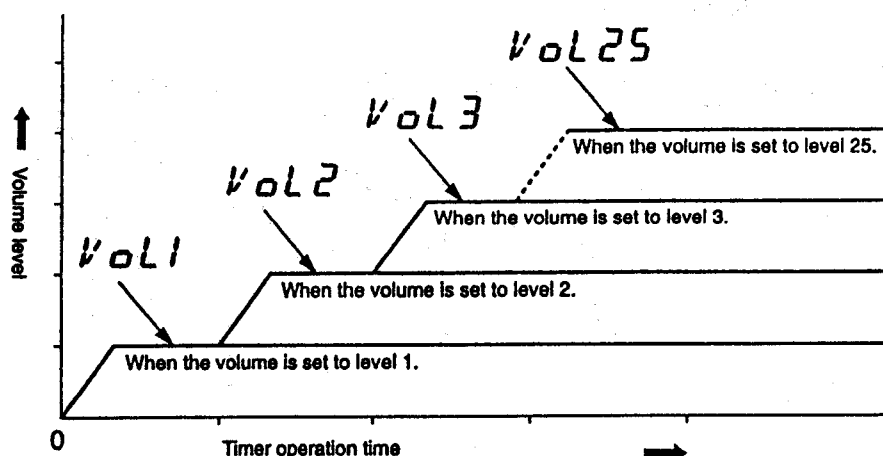
1. Set the POWER button to on.
2. Set the timer start and stop times, then set the volume, in this order. (Refer to "Setting the timer" on page 46.)
3. Select the source sound.

Source sound	Timer mode	Operations
CD play	CD	Load a disc and press the  STOP/CLEAR button to set the CD mode.
Tape playback	TAPE	Load a cassette tape.
Radio broadcast	TUNER	Press the TUNER/BAND button to set to the tuner mode and tune to the required frequency.

- Timer playback of a CD is possible in programmed order. (See page 27.)
- The volume can be set to 25 different levels.
- 4. Switch the power off.
(When performing the timer playback of tape, press the  PLAY button of the deck.)

- Timer playback will start at the timer start time and the power will be switched off at the timer stop time. (Tuner or CD)
The power will not be switched off at the specified time during tape operation and will be switched off at the tape end.
The unit remains in the same timer mode even after the power is switched off and the same timer function will be repeated at the same time on the following day.

- Volume setting and fade-in operation



- To cancel timer operation

Set the POWER button to on, then press the TIMER ON/OFF button so that the timer mode indicator (Ⓢ) goes out.

Notes:

- When the volume setting is set to "Vol -" (volume level is not specified), the timer playback volume is set to that of before setting the timer.
- To stop during timer playback, press the POWER button to switch the unit off.
- In the fade-in mode, the volume gradually increases from zero.

SLEEP OPERATIONS

Use this when you want to fall asleep while listening to a tape, radio broadcast or CD.

- ① Set to the required source.

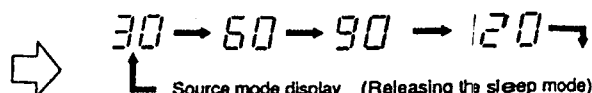
	Operations
Radio broadcast	Press the TUNER/BAND button to set to the tuner mode and tune to the required frequency.
CD play	Load a disc and press the ►/IT button to play the disc.
Tape playback	Load a cassette and press the ► PLAY button to play back the tape.

- ② Press the SLEEP button to set to the sleep time.



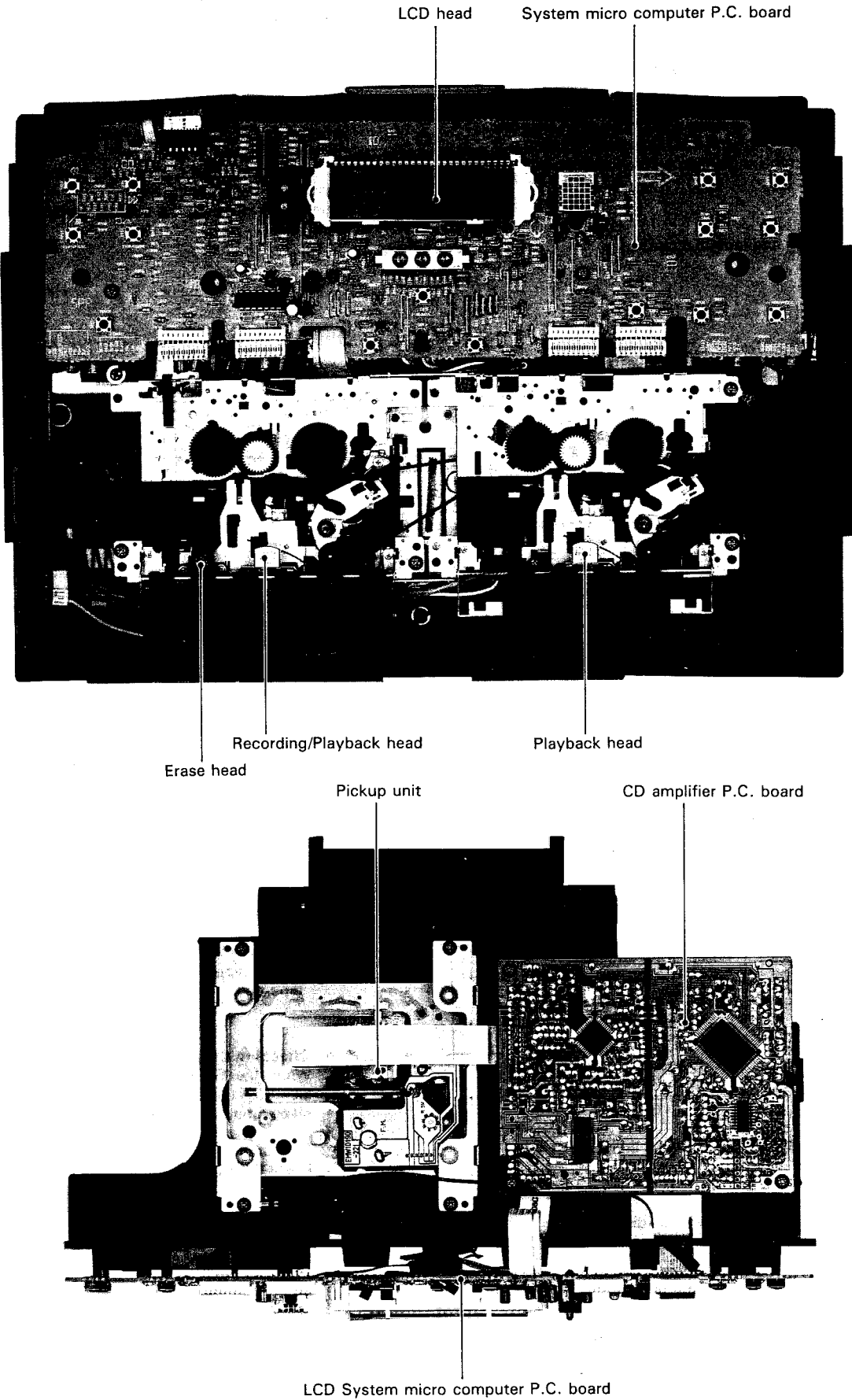
SLEEP is shown in the display

- Sleep times of 30, 60, 90 or 120 minutes can be set.
When you release the SLEEP button, the source is displayed after 10 sec.



- The sleep operation will start and the power will be switched off after the specified time. (Tuner & CD modes)
The power will not be switched off at the specified time during tape operation and will be switched off at the tape end.
- Checking the sleep time
When the SLEEP button is pressed, the remaining sleep time is displayed. If it is pressed again, a new sleep time can be set.
- To cancel the sleep operation
Press the POWER button to switch the power off.

Location of Main Parts



5. Removal of Main Parts

■ Front Cover Assembly (refer to Fig.1, 2)

1. Remove the six screws ① retaining the rear cabinet assembly of the body.
2. Remove the two screws ② retaining both sides of the rear cabinet assembly.
3. Press the eject buttons on both sides A and B and open the cassette door.
4. Turn the front cover upward and dismount the front cover assembly from the body.

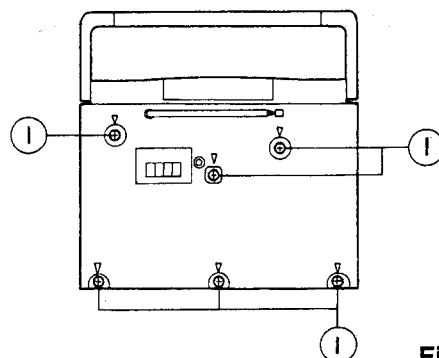
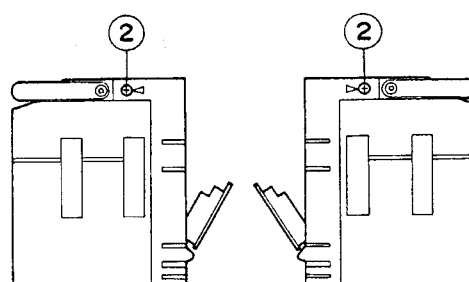


Fig. 1



Push eject button
Open the door.



Fig. 2

■ CD Player Assembly (refer to Fig.3)

1. Turn the body backward and remove the two screws ③ retaining the CD player assembly.
2. From the connector CN302 on the main amplifier P.C. board, pull out the #5 PIN parallel wire out – going from the connector FW501 on the CD amplifier P.C. board.
3. From the four connectors (CN303, CN304, CN305 and CN306) connecting the main amplifier P.C. board and LCD P.C. board disconnect the connectors (CN801, CN802, CN803 and CN804) on the LCD P.C. board.

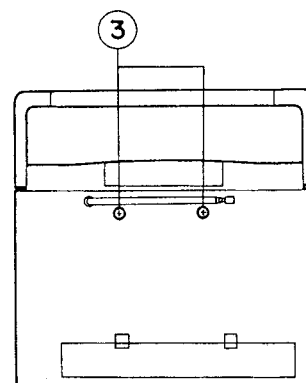


Fig. 3

■ LCD P.C. Board (refer to Fig.4)

1. Remove the five screws ④ retaining the LCD P.C. board from the CD player assembly.
2. From the connector CN805 on the LCD P.C. board, disconnect the parallel wire outgoing from the connector FW601 on the CD amplifier P.C. board.

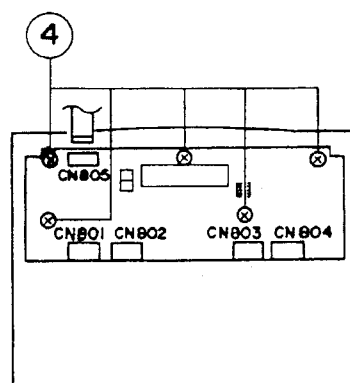


Fig. 4

■ CD Amplifier P.C. Board (refer to Fig.5)

1. Remove the three screws ⑤ retaining the CD amplifier P.C. board from the CD player chassis.
2. From the connector P011 on the CD mechanism P.C. board, disconnect (remove) the #6PIN connector outgoing from the CD amplifier P.C. board.
3. From the connector CN501 on the CD amplifier P.C. board, remove the parallel wire outgoing from the CD pickup P.C. board.

■ CD Mechanism Assembly (refer to Fig.5)

Remove the four screws and ⑦ retaining the CD mechanism assembly.

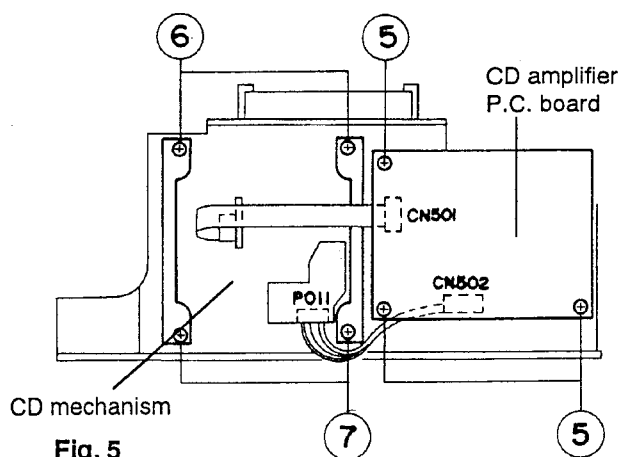


Fig. 5

■ Cassette Mechanism Assembly (refer to Fig.6)

1. Remove the four screws ⑧ retaining the cassette mechanism assembly.
2. From the connector CNA31 on the main P.C. board, disconnect the #3PIN connector outgoing from the replay head of the cassette mechanism B.
3. From the connector CNA32 on the main amplifier P.C. board, pull out the #2PIN and #5PIN connectors outgoing from the deletion, recording and replay heads of the cassette mechanism A.
4. Pull out the black and gray wires, and the red and pink wires outgoing from the replay select switch, yellow and brown wires outgoing from the recording select switch of the cassette mechanism A, as well as the white and violet wires and blue and orange wires outgoing from the replay select switch of the cassette mechanism B respectively from the connector CNA35 on the main amplifier P.C. board.
5. From the connector CNA36 on the main amplifier P.C. board, pull out the #4PIN parallel wire outgoing from the drive motor.

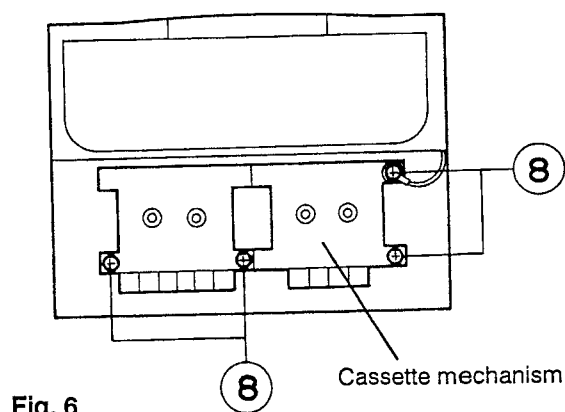


Fig. 6

■ Main Amplifier P.C. Board (refer to Fig. 7)

1. Remove the four screws (⑨ and ⑩) retaining the main amplifier P.C. board.
2. From the test point TP1 on the main amplifier P.C. board, pull out the black wire outgoing from the rod antenna.
3. Battery contact P.C. board (peel off the bond fixing the rear cover. Then, it is possible to pull out the main amplifier P.C. board together with the battery contact P.C. board)

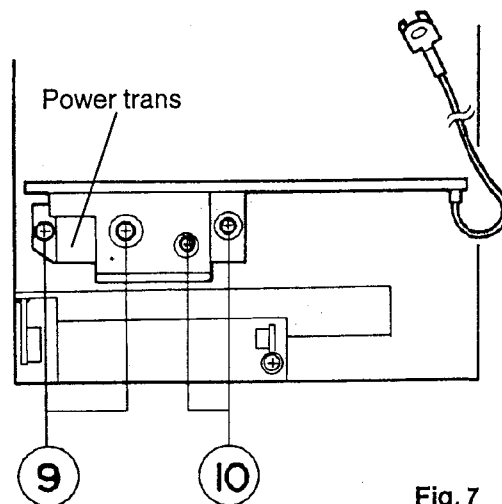


Fig. 7

■ Heat sink (refer to Fig. 8)

1. Remove the two screws ⑪ retaining the IC101 and IC201 from the heat sink.
2. Remove the two screws ⑫ retaining the transistor (Q901 and Q921) from the heat sink.
3. Remove the heat sink from the main P.C. board.

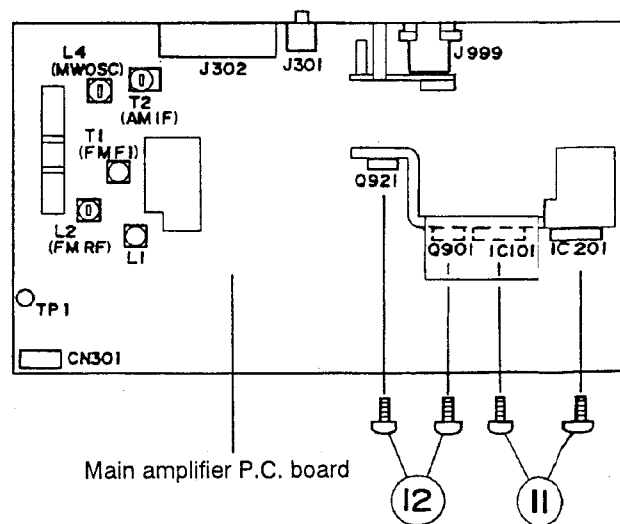
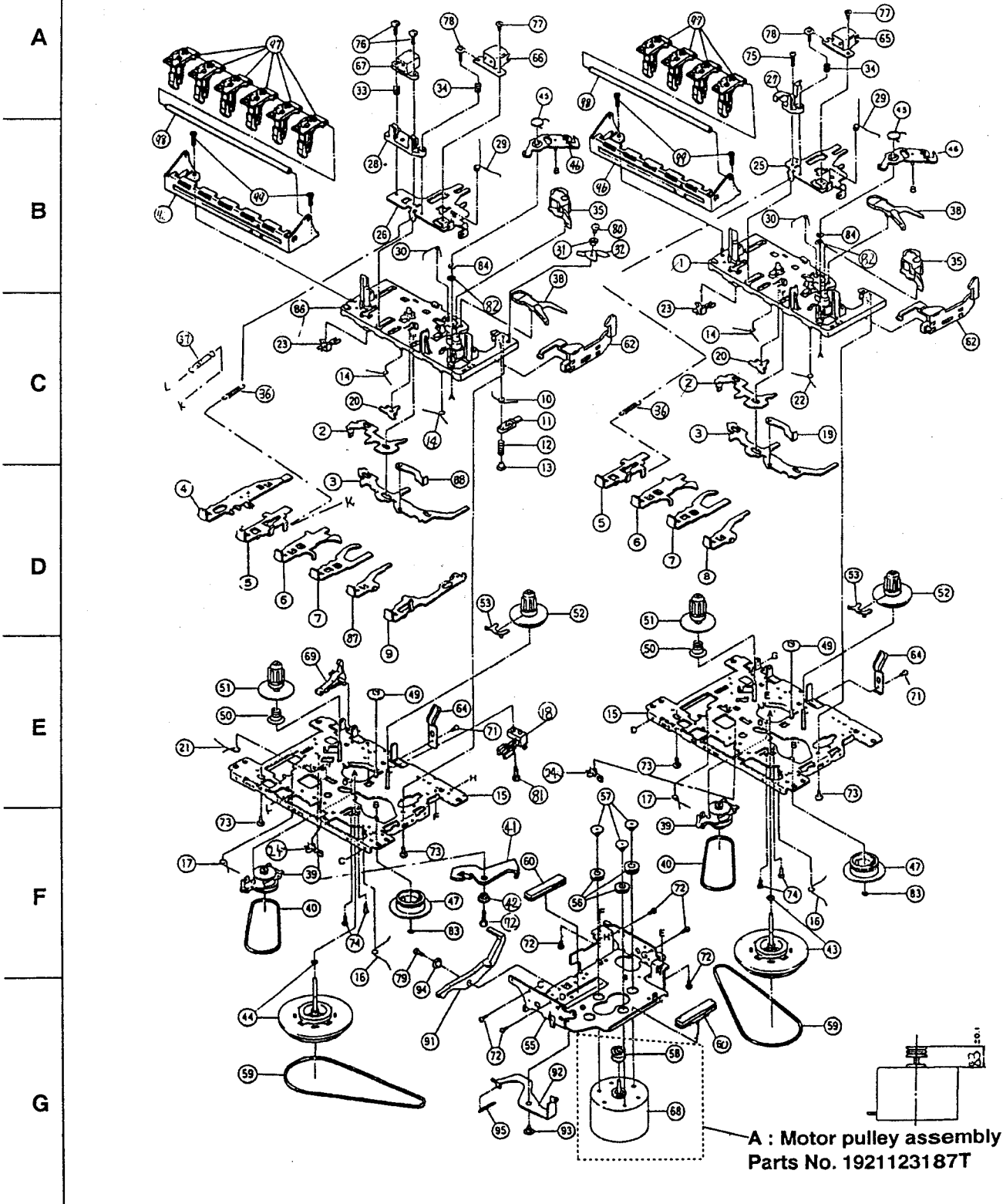


Fig. 8

Analytic Drawing and Parts List

1	2	3	4	5	6
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■ Analytic Drawing of Cassette Mechanism : Block No. M 1



■ Mechanism assembly parts list

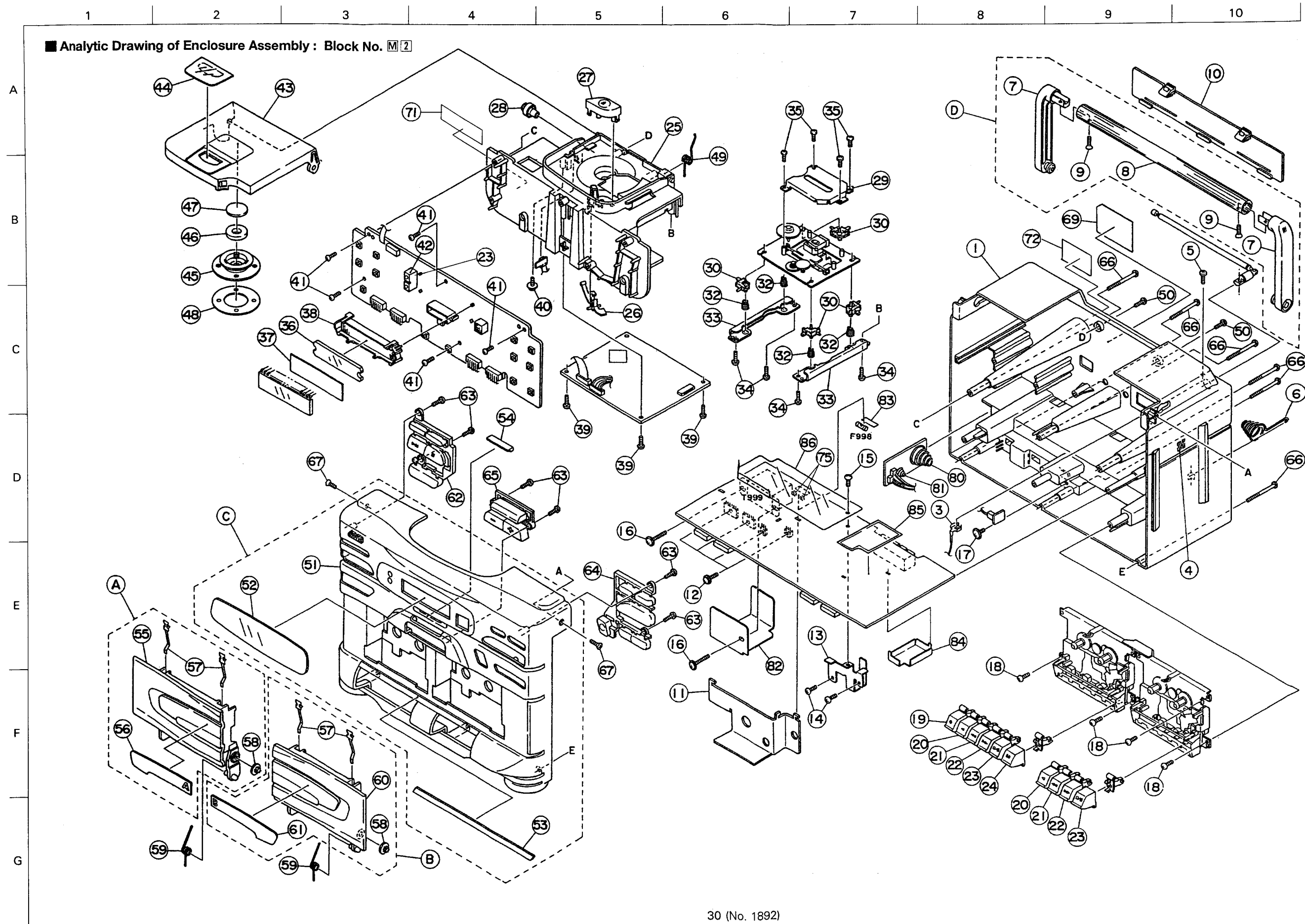
BLOCK NO. M1MM1111

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX
	A	1921123187T	CAPSTAN MOTOR	REF.58,68	1	
	1	192114301ZT	DISK BASE		1	
	2	19211409T	SWITCH PLATE		2	
	3	19211438T	LOCK CAM	ACTUATER	2	
	4	19211422T	PUSH LEVER	REC.	1	
	5	19211484T	PUSH LEVER	PLAY	2	
	6	19211424T	PUSH LEVER	REW	2	
	7	19211425T	PUSH LEVER	FF	2	
	8	19211426T	PUSH LEVER	STOP	1	
	9	19211461T	PUSH LEVER	PAUSE	1	
	10	19211413T	SPRING	P.CONTROL	1	
	11	19211455T	PAUSE LEVER		1	
	12	19211412T	SPRING		1	
	13	19211411T	LOCK STOPPER		1	
	14	19211414T	SPRING		3	
	15	192101501ZT	CHASSIS BASE		2	
	16	19211416T	SPRING	E.ACTUATER	2	
	17	19211417T	SPRING	PS.LEVER	2	
	18	64010138T	LEAF SWITCH		1	
	19	182101159T	EJECT LEVER		1	
	20	19211420T	ARM STOPPER		2	
	21	19211449T	SPRING	REC.BUTTON LEV.	1	
	22	19211433T	SPRING	BUTTON LEVER	1	
	23	MSW-1541T	LEAF SWITCH		2	
	24	640101161T	LEAF SWITCH		2	
	25	19210311T	HEAD PANEL		1	
	26	19210314T	HEAD PANEL		1	
	28	19210306T	HEAD BASE		1	
	29	19210309T	SPRING		2	
	30	19211418AT	SPRING		2	
	31	19211437T	COLLAR		1	
	32	19211434T	CONTROL ARM		1	
	33	18210308T	SPRING		1	
	34	18210307T	SPRING	AZIMUTH	2	
	35	192104306T	PINCH ROLLER		2	
	36	18210150T	SPRING	P.BUTTON LEVER	2	
	37	18211311T	SPRING	E.SLIDE LEVER	1	
	38	19212604TT	KICK LEVER		2	
	39	192107308T	R.F.CLUTCH		2	
	40	18210711T	FR BELT		2	
	41	19210201T	RECORDING ARM		1	
	42	19211437T	COLLAR		1	
	43	192109318T	FLYWHEEL		1	
	44	192109317T	FLYWHEEL		1	
	45	19212605T	SPRING	GEAR PLATE	2	
	46	192126502ZT	GEAR PLATE		2	
	47	19212602T	CAM GEAR		2	
	49	18211070T	IDLER GEAR		2	
	50	18291010T	SPRING	BACK TENSION	2	
	51	192105304T	SUP.REEL DISK		2	
	52	192105303T	T.U.REEL DISK		2	
	53	19210506T	ADJUST RING		2	
	55	19211211T	MOTOR BRACKET		1	
	56	18211266T	RUBBER BUSHING		3	

BLOCK NO. M1MM1111

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX
	57	18511418T	SCREW	MOTOR COLLER	3	
	58	19211213T	MOTOR PULLEY		1	
	59	19210923T	CAPSTAN BELT		2	
	60	182112126T	FELT		2	
	62	19211302T	SLIDE LEVER		2	
	64	18291001T	SPRING		2	
	65	MS15R-AA2N1	PB HEAD		1	
	66	MS15R-AA2N1	R/P HEAD		1	
	67	LE15A-C1	ERASE HEAD		1	
	68	60020222T	CAPSTAN MOTOR		1	
	69	18211069T	KICK LEVER		1	
	71	91790000T	SCREW	M2X3	2	
	72	91800000T	SCREW	M2X4	7	
	73	96790000T	SCREW	M2X5	4	
	74	99991809T	SCREW	M2X4.5	6	
	75	90040000T	SCREW	M2X6	1	
	76	92230000T	SCREW	M2X7.5	2	
	77	91150000T	SCREW	M2X3	2	
	78	99220000T	SCREW	M2X7:AZIMUTH	2	
	79	91820000T	SCREW	M2X6	1	
	80	99992041T	SCREW	M2X3	1	
	81	91810000T	SCREW	M2X5	1	
	82	99990003T	POLY WASHER		2	
	83	94220000T	WASHER		2	
	84	99990313T	WASHER		2	
	86	192114316T	BUTTON BASE		1	
	87	19211466T	BUTTON LEVER		1	
	88	19211464T	KICK LEVER		1	
	91	19211209T	KICK LEVER		1	
	92	18211268T	KICK LEVER		1	
	93	18211223T	SCREW		1	
	94	18211265T	COLLAR		1	
	95	18211312T	SPRING		1	
	96	18213106T	FRAME		2	
	97	18213107T	SELECT LEVER		10	
	98	18293103T	SHAFT	BUTTON LEVER	2	
	99	99991402T	SCREW	M2X8	4	

■ Analytic Drawing of Enclosure Assembly : Block No. M 2



Enclosure Assembly Parts List

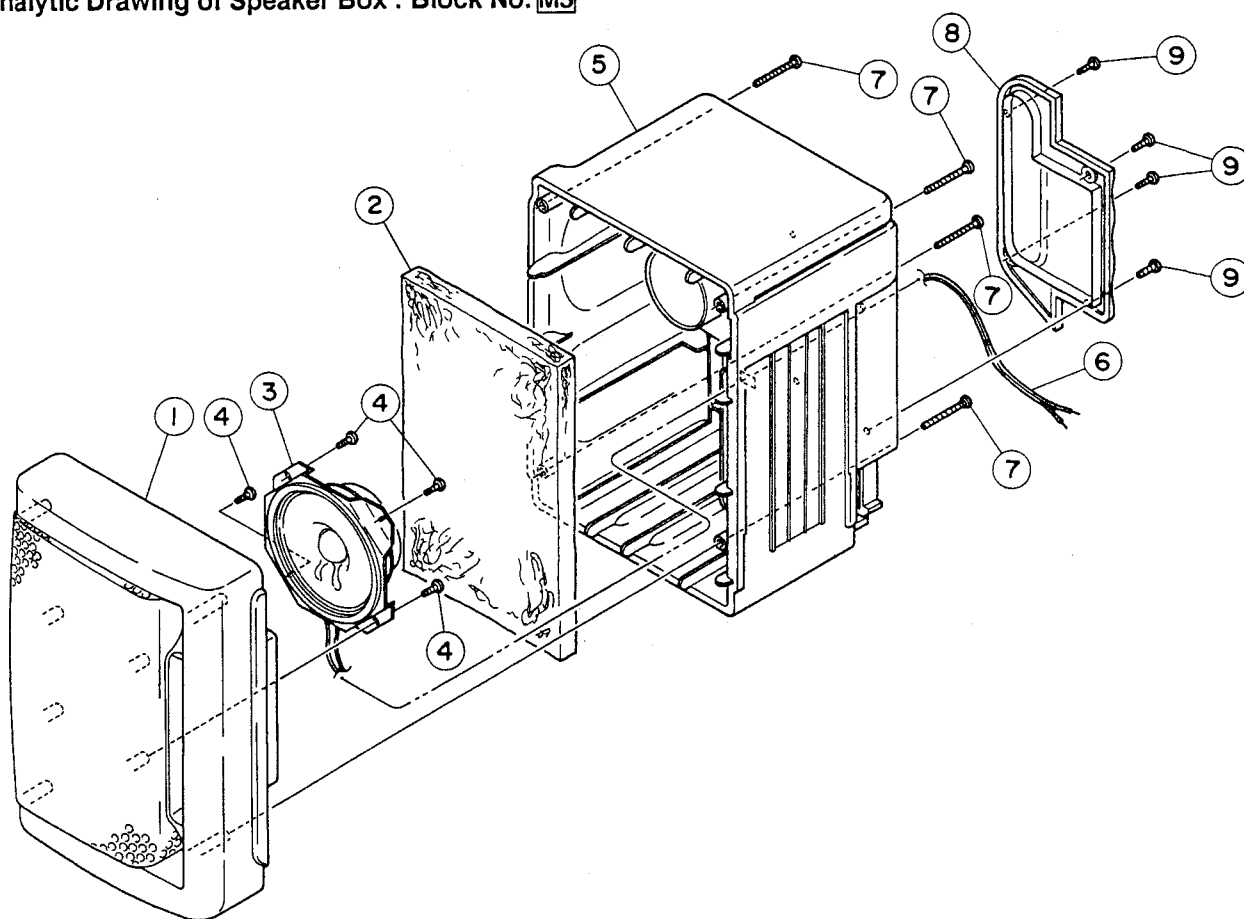
BLOCK NO. M2MM IIII

A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX
	A	ZCPRX130K-CBA	CASSETTE CASE	REF.55-57	1	
	B	ZCPRX130K-CBB	CASSETTE CASE	REF.57,60,61	1	
	C	ZCPRX130K-FB	FRONT CABINET	REF.51-53	1	
	D	PCX130K-HANDLE	HANDLE	REF.7,8	1	
	1	FSJC1003-002	REAR CABINET		1	
	2	VJA3006-00E	ROD ANTENNA		1	
	3	VYH5012-005SS	TERMINAL LUG		1	
	4	VYSH101-009	SPACER		1	
	5	SDSP3012N	SCREW	ROD ANT+REAR CA	1	
	6	VYH5657-001	BATTERY SPRING		1	
	7	VJH3061-002	HANDLE HOLDER		2	
	8	VJH4093-117SS	HANDLE PIPE		1	
	9	SHSF3012N	SCREW	HANDLE PIPE + H	2	
	10	VJC2016-023SS	BATTERY COVER		1	
	11	FSYH3003-001	HEAT SINK		1	
	12	DPSP3010Z	SCREW	P.TRANSISTOR+H.	4	
	13	FSKL4003-002	AC BRACKET		1	
	14	SBSF3012Z	SCREW	AC BKT+REAR CAB	2	
	15	SBST3006Z	SCREW	AC BKT + AMP PW	1	
	16	GBSF4020Z	SCREW	P.TRANS+REAR CA	2	
	17	E65923-003	SPECIAL SCREW	FOR BATTERY PWB	1	
	18	SBSF3012Z	SCREW	MECHA+REAR CABI	4	
	19	VXP3348-201	MECHA BUTTON	REC.	1	
	20	VXP3348-203	MECHA BUTTON	PLAY	2	
	21	VXP3348-204	MECHA BUTTON	REW	2	
	22	VXP3348-205	MECHA BUTTON	FF	2	
	23	VXP3348-206	MECHA BUTTON	STOP/EJECT	2	
	24	VXP3348-207	MECHA BUTTON	PAUSE	1	
	25	FSJD1002-001	CD CASE		1	
	26	VKS5416-001	LOCK ARM		1	
	27	VXP5160-003	SPRING		1	
	28	VYH4769-002	GEAR		1	
	29	VJD5410-005	PICK COVER		1	
	30	VYH6596-201	CD CUSHION	FOR CD MECHA	4	
	31	VKW4693-101	CONICAL SPRING	FOR CD MECHA	2	
	32	VKW4693-102	CONICAL SPRING	FOR CD MECHA	2	
	33	VKL7209-002	CD MECHA HOLDER		2	
	34	SBSF3012Z	SCREW	CD ASS'Y+CD CAS	4	
	35	SDSF2006M	SCREW	CD MECHA+PICK C	4	
	36	FSYH4005-001	SHEET		1	
	37	FSJK4001-002	LENS		1	
	38	FSYH4006-001	LCD HOLDER		1	
	39	SBSF3012Z	SCREW	CD AMP PWB +CD	3	
	40	GBSF3010Z	SCREW		1	
	41	SBSF3012Z	SCREW	CONT.PWB+CD CAS	6	
	42	FSYH4015-001	LED REFLECTOR		1	
	43	FSJT1001-001	CD DOOR		1	
	44	FSJD4003-001	CD LENS		1	
	45	VYH3644-201	CLAMPER		1	
	46	VYH7313-001R	MAGNET		1	
	47	VYH7314-001	YOKE		1	
	48	VYH7315-004	PAD		1	
	49	VKW5034-001	CD DOOR SPRING		1	
	50	SBSF3014Z	SCREW	CD CASE + REAR	2	
	51	FSJC1005-002	FRONT CABINET		1	

BLOCK NO. M2MM

△ REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX
52	FSJD3001-001	LCD LENS		1	
53	FSJD3002-002	CONTROL PLATE		1	
54	FSYH4016-001	LED LENS		1	
55	FSJT2002-001	CASSETTE DOOR(A		1	
56	FSJT3001-001	CASSETTE LENS(A		1	
57	VKY4180-001	CASSETTE SPRING		2	
	VKY4180-001	CASSETTE SPRING		2	
58	VYH5601-001	GEAR		1	
	VYH5601-001	GEAR		1	
59	FSKW4001-001	DOOR SPRING		1	
	FSKW4001-001	DOOR SPRING		1	
60	FSJT2002-002	CASSETTE DOOR(B		1	
61	FSJT3001-002	CASSETTE LENS(B		1	
62	FSXP3001-001	CD BOTTON		1	
63	SBSF2608Z	SCREW	FOR CD BUTTON	2	
	SBSF2608Z	SCREW	FOR TUNER BUTTO	2	
	SBSF2608Z	SCREW	FOR VOL BOTTUN	2	
64	FSXP3002-001	TUNER BUTTON		1	
65	FSXP3003-002	VOLUME KNOB		1	
66	SBSF3050Z	SCREW	F.CABI+R.CABINE	6	
67	SSSF3010M	SCREW	F.CABI+R.CABINE	2	
△ 69	FSYN7001-014T	NAME PLATE		1	EN
△	FSYN7001-010T	NAME PLATE		1	GI
△	FSYN7001-005T	NAME PLATE		1	E
△	FSYN7001-002T	NAME PLATE		1	B
△	FSYN7001-008T	NAME PLATE		1	G
71	VND4220-001	LASER CAUTION		1	
72	VND4221-001	CLASS 1 LABEL		1	
73	FSYH4018-001	LED HOLDER		1	
74	VJF4003-003	FOOT		2	
75	VMZ0087-001Z	FUSE CLIP I/M	SECONDARY F998	2	
	VMZ0087-001Z	FUSE CLIP I/M	SECONDARY F997	2	
80	VYH5483-001	SPRING	FOR UM-1	1	
81	VYH6889-002	BATTERY SPRING	FOR UM-3	1	
82	FSYH4017-002	SHIELD		1	
83	VND4003-076	FUSE LABEL	F998	1	
	VND4003-076	FUSE LABEL	FOR F997	1	
84	VMA4482-002SS	SHIELD CASE		1	
85	VMA4572-002	SHIELD		1	
F 997	QMF51E2-5R0J1	FUSE		1	
△ F 998	QMF51E2-5R0J1	FUSE		1	
△ T 999	VTP57P2-12C	POWER TRANS		1	

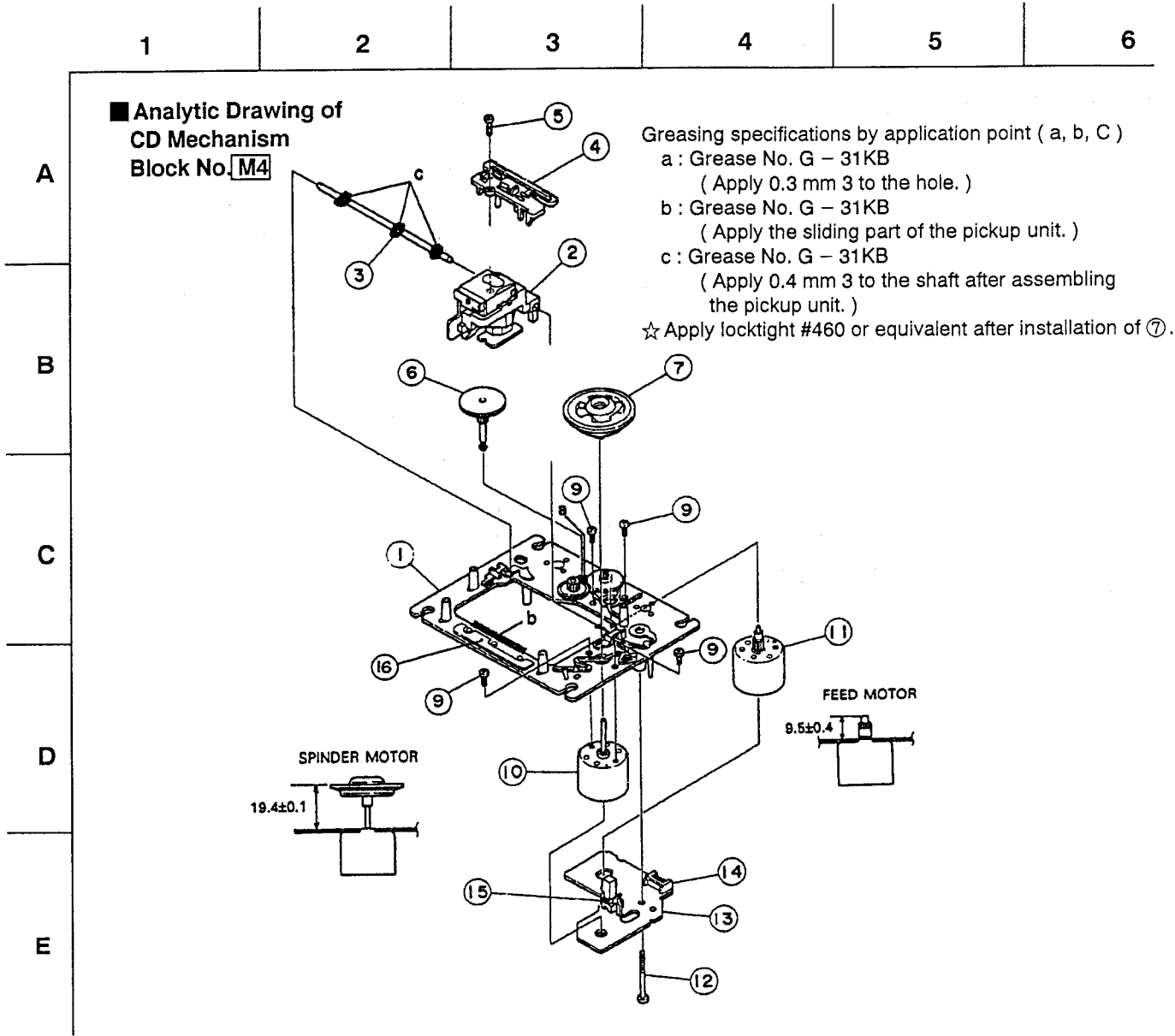
■ Analytic Drawing of Speaker Box : Block No. **M3**



■ Speaker box parts list

BLOCK NO. **M3MM**

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX
	1	FSJC2003-00A	SP PANEL ASY(L)		1	
		FSJC2002-00A	SP PANEL ASY(R)		1	
	2	FSYH4022-001	SOUND ABSORBER		1	
	3	VGS1001-017	SPEAKER	SP101	1	
	4	SBSF3010Z	SCREW	FOR SPEAKER	4	
	5	FSJC1008-001	SP REAR CABI(L)		1	
		FSJC1009-001	SP REAR CABI(R)		1	
	6	VMP0040-002T	SPK CORD		1	
	7	FSYH4023-001	SCREW	FRONT+REAR	4	
	8	FSYH2001-001	COVER (L)		1	
		FSYH2001-002	COVER (R)		1	
	9	SBSF3012M	SCREW	FOR COVER	4	



CD mechanism assembly parts list

BLOCK NO. **M4MM**

A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX
	1	EPB-002A	MECHA BASE ASSY		1	
	2	OPTIMA-6S	OPTICAL PICK-UP		1	
	3	E406777-001	GUIDE SHAFT		1	
	4	E307746-001	CD RACK		1	
	5	SDSF2006Z	SCREW		1	
	6	EPB-003A	MECHA GEAR		1	
	7	E75807-301	TURN TABLE		1	
	9	SDSP2003N	SCREW		1	
	10	E406783-001	DC MOTOR		1	
	11	E406784-001SA	DC MOTOR ASSY		1	
	12	E75832-001	SPECIAL SCREW		1	
	13	EMW1090-001	PRINTED BOARD		1	
	14	EMV5109-006B	CONN.TERMINAL		1	
	15	ESB1100-005	LEAF SWITCH		1	
	16	E4072312-001	DAMPER		1	

7. Main Adjustments

■ Test Instruments required for adjustment

1. Low frequency oscillator
(oscillation frequency : 50Hz to 20kHz)
(Output : 0 dBs with 60 Ω terminator)
2. Attenuator(Impedance : 600 Ω)
3. Test Tapes
VTT712 : tape speed,wow & flutter measurement
VTT703L : Head azimuth
VMT7036 : 1k/10kHz reference level check
VTT751 : Cross talk check
VTT752 : playback channel check
4. Electronic voltmeter
5. Resistor : 600 Ω for attenuator matching
6. Distortion meter
7. Torque gauge : Cassette type for CTG — N
8. Wow and Flutter meter
9. Frequency counter

■ Measuring conditions (Amplifier section)

Supply voltage

: AC 230V(50Hz) ; PC — X130E/EN/G/GI

: AC240V(50Hz) ; PC — X130B

Battery DC : 12V

Back up battery : 4.5V

Reference output : Speaker ; — 10dBs (0.25V) / 8 Ω

: Headphone ; — 29dBs(28mV)/ 32 Ω

● Standard position of function switches

Function switch TAPE
Tape select switch NORMAL
Active hyper bass OFF
Dubbing speed switch NORMAL
Measuring point Headphone

● Standard position of volume control

Equalizer frequency(100 Hz, 1 kHz, 10 kHz) .. CENTER
Main volume adjust 13
Test tape for REC/PB Normal tape (UR8)

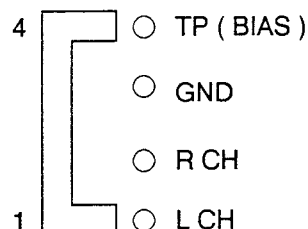
Standard test frequency

: 1 kHz (unless otherwise specified)

Reference input level : Test point CN301 ; — 18 dBs

For REC/PB, Check & measuring input use

: CN301; — 18.0 dBs (Component side)



Output for measuring unless otherwise specified

At headphone J301 with dummy load 32 Ω

■ Measuring condition (Radio section)

Reference output : Speaker ; 50mW(0.63 V) / 8 Ω

: Headphone ; 0.17mW(0.07V)/32 Ω

AM frequency 400Hz modulation 30%

FM frequency 400Hz modulation

frequency deviation 22.5kHz

● Standard position of switches and controllers

Function RADIO
Mode STEREO
Equalizer frequency CENTER
Active hyper bass Off

● Careful points for adjustment

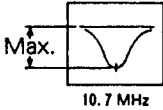
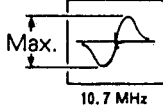
1. Connect 30 pF capacitor and 33 k Ω resistor to the output side of the IF sweeper in series while 0.032 μ F capacitor and 1000k Ω resistor to the input side in series.
2. Set output level of the IF sweeper as minimum as adjustable.

■ Mechanism & Amplifier Sections

Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
Head azimuth adjustment	Test tape :VTT703L (10 kHz) Test point :Headphone (Dummy load 32 Ω)	Play test tape VTT703L(10kHz) and adjust the head azimuth so that output level is maximum and phase discrepancy is minimum between the two channels.	Output :maximum Phase difference :minimum	Head adjusting screw
Motor speed adjustment	Test tape : VTT712(3kHz) Test point : Headphone (Dummy load 32 Ω)	Play test tape VTT712 (3kHz) and near the end position. Should the following tape speed is out of specification, it is necessary to adjust the speed controller (external /semiifixed resistor).	Normal speed : 3010 ± 80 Hz High speed : 5400 \pm 400 Hz	VRA61
Wow and flutter check	Test tape :VTT712(3kHz) Test point :Headphone (Dummy load 32 Ω)	Play test tape VTT712(3kHz) to tape start, middle and end position. Wow and flutter should be within the following allowance at the three positions.	Playback should be within 0.4% (JIS RMS)	—
Playback output level check	Test tape :VTT724(1kHz) Test point : Headphone (Dummy load 32 Ω)	1. Play test tape VTT724(1kHz) and switch the tape select to Metal position. The playback output level should be within – 1.5~ – 3.5 dB. 2. L, R difference level to be within \pm 3dB.	Within – 1.5~ – 3.5dB within \pm 3dB	—
Frequency response check	Test tape :TMT – 7036 (1kHz//10kHz)	Switch tape select to Normal position and volume at level 13 position. Play test tape TMT – 7036 then compare the level between 1 kHz and 10 kHz. Then defference level should be within 0dB \pm 3 dB.	Difference of 10 kHz level from 1 kHz level : within 0 \pm 3dB	—

Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
Bias frequency adjustment	<ul style="list-style-type: none"> • Adjust : FM mode • Confirm : AM mode Test point :CN301	Switch tape select to Normal position. In case that the bias frequency is out of specification, LA341 should be readjusted to standard and set to Tuner Rec. position for alignment. ① Adjust bias frequency at FM mode. ② Confirm bias frequency at MW mode. ③ Confirm bias frequency at LW mode.	Tuner frequency • FM / Bias frequency : 101.0kHz • AM522(M1) /Bias frequency : 97.2kHz • LW144(M6) /Bias frequency : 101.0kHz	LA341
Recording /playback frequency response check and adjustment	Test tape : UR(Normal tape) Test point : Headphone (Dummy load 32 Ω)	Select function to tape mode and volume at level 25 position. Reference level of – 20 dB, (1 kHz and 10 kHz) perform the REC/PB function. Play back the recorded signals, adjust VR41, so that the level of the 10 kHz signal is 0dB \pm 2 dB to the level of the 1 kHz signal.	10 kHz : 0 \pm 2 dB	VR41
Recording /playback sensitivity check	Test tape : UR(Normal tape) Input : CN301 Test point : Headphone (Dummy load 32 Ω)	Supply 1 kHz, – 18 dBs signal to the test point CN301 and record it. Play it back while checking that the level is within 0 \pm 3 dB to the monitor level.	Reference level : Monitor level 0 \pm 3 dB	—
Recording / playback distortion check	Test tape : UR(Normal tape) Input : CN301 Test point : Headphone (Dummy load 32 Ω)	Supply 1 kHz, – 18 dBs signal to the test point CN301 and record it. Play it back while checking that distortion is less than 5 %.	Less than 5 %	—

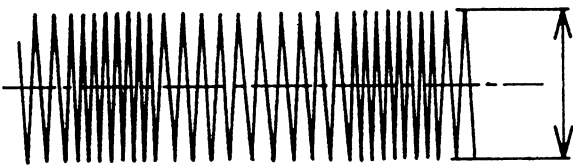
Tuner Section

Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
AM IF adjust and check (All version)	<ul style="list-style-type: none"> •Band select : MW or AM •Receiving frequency : Near the upper band edge where no signal comes in. •Volume control : Minimum gain position. •Tuner Input : Positive side to TP3 •Tuner output : Positive side to TP6 : Negative side to TP7 	<ul style="list-style-type: none"> •Adjust above mentioned aligning position, so that maximum and symmetrical wave from (See Fig.a) can be obtained, in this case, the wave peak should appear on the center marker(450kHz) in the scope of sweeper. •On the AM IF circuit, IF filter is solid units, so there is unnecessary for IF tuning. •In case if tuning may be needed (Repair etc.), do the above mentioned alignment. 		T2
		 <p>Fig.a</p>  <p>Fig.b</p>		
FM IF adjust and check (All version)	<ul style="list-style-type: none"> •Band select : FM •Receiving frequency •Volume control : Minimum gain position. •Tuner input : Positive side to TP5 •Tuner output : Positive side to TP6 : Negative side to TP7 	<ol style="list-style-type: none"> ① Remove CF3 so that " S " curve may be changed to IF wave from as shown Fig. a. Adjust T1 farther more to obtain maximum and balanced wave from . ② Put back CF3 so that " S " curve on the scope may obtain maximum and balanced wave from as shown Fig.b. <p>* On the FM circuit, IF filter and discriminator is solid units so there is unnecessary for IF tuning. In case IF tuning may be needed (Repair etc.), do that above mentioned alignment.</p> <p>* Note for G/GI , E/EN version</p> <ol style="list-style-type: none"> ① As to " G/GI " , " E/EN " version, FM IF alignment is necessary. ② Receive 98MHz, 22.5 kHz dev. Input level, about - 3dB limiting sensitivity level. ③ Adjust T1, no farther improvement. 		T1

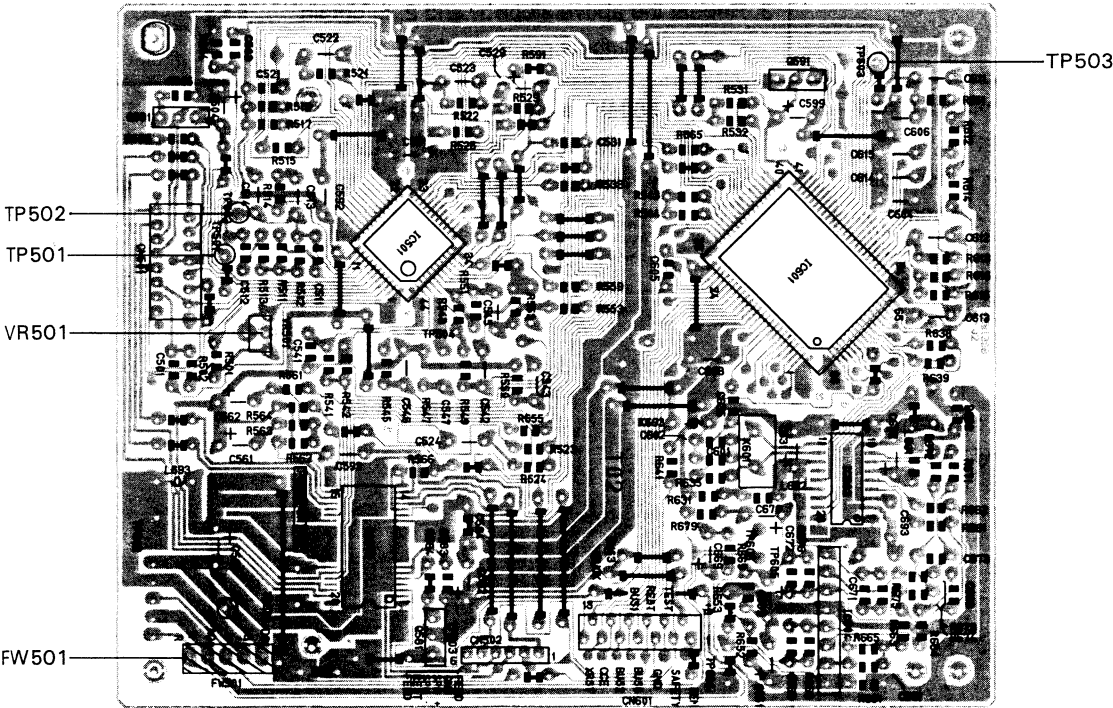
■ Tuner Section

Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
LW RF tracking check and adjust (All version)	Band select : LW Tuner Input : Standard loop antenna Measuring point : TP9	<ul style="list-style-type: none"> Frequency of SSG :144kHz Number preset memory : Max. capacity(M6) 1. Adjust L6 to obtain $1.1V \pm 0.02V$ at TP9. <ul style="list-style-type: none"> Frequency range : 144 kHz Receive 144 kHz(M6) 2. Receive 144kHz signal from an AM oscillator by the set while adjusting L5to maximize headphone output. <ul style="list-style-type: none"> Frequency range : 288kHz Recieve 288 kHz(M7) 3. Receive 288 KHz signal from an AM oscillator by the set while adjusting TC3 to maximize headphone output. 4. Repeat the above steps 2. and 3. to obtain maximum outputs respectively.	$1.1V \pm 0.02V$ utput level :Maximum	L6 L5 TC3 L5, TC3
MW or AM RF tracking check and adjust (All version))	Band select : AM or MW Tuner Input : Standard loop antenna	1. Receive 603 kHz signal (preset No.3) from the AM oscillator by the set while adjusting L3 to maximize headphone output. 2. Receive 1404 kHz signal from an AM oscillator by the set while adjusting TC2 to maximize headphone output. 3. Repeat the above steps 1. and 2. to obtain maximum outputs respectively.	Output level :maximum	L3 TC2 L3, TC2
FM RF tracking check and adjust (All version)	<ul style="list-style-type: none"> Band select : FM Tuner input : Dummy antenna for unbalanceed 75Ω : Positive side to TP1 : Negative side to TP2 	<ul style="list-style-type: none"> Receive 88 MHz signal (preset No.3) from an FM oscillator by the set while adjusting L2 to maximize headphone output . 	Output level : maximum	L2

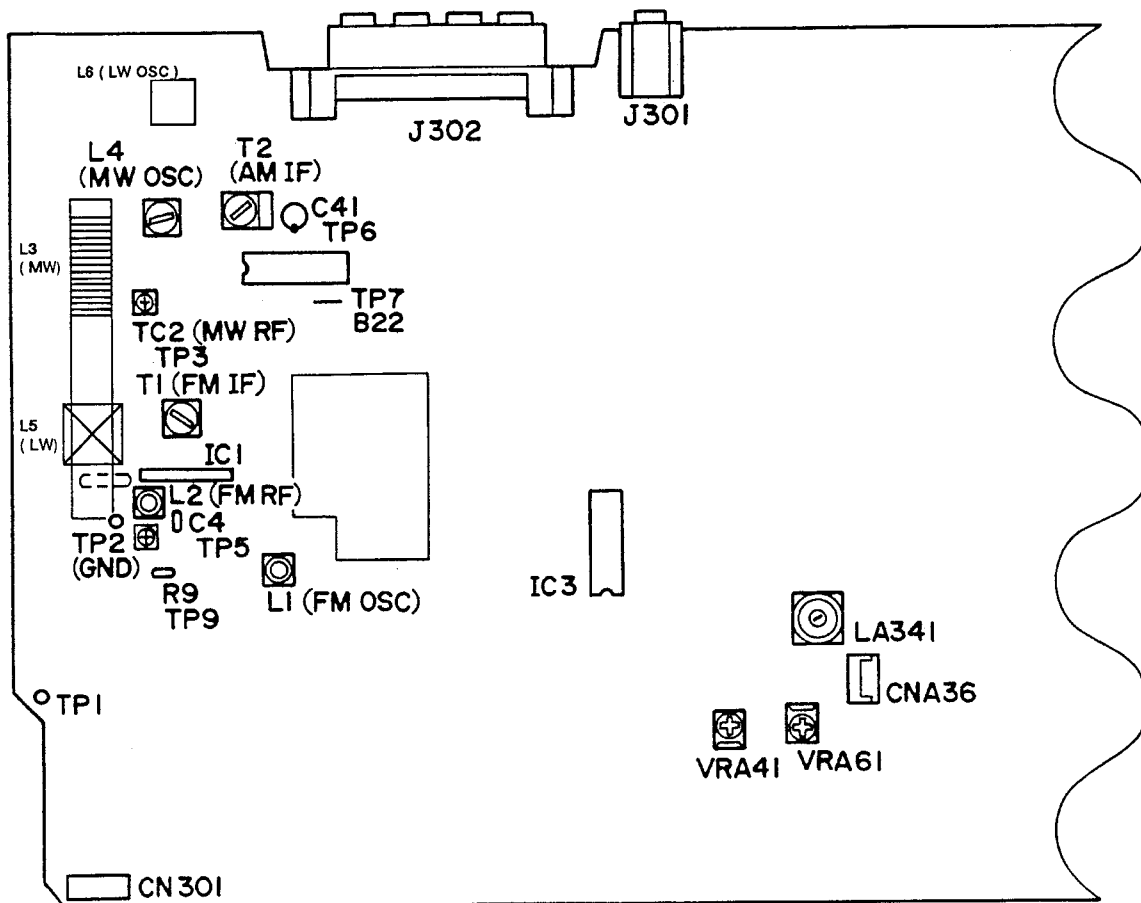
■ CD player Section

Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
Tracking offset adjustment	Normal disc :CTS1000 Oscilloscope	<div>1. Connect an oscilloscope between TP503 (Hot side) and TP502 (Earth side).</div> <div>2. Shortcircuit between pin ② and pin ⑤ of FW501, and supply 8 V to pin ③ .</div> <div>3. Playback a normal disc.</div> <div>4. Shortcircuit between TP504 and TP502.</div> <div>5. Adjust VR501 so that DC level of tracking error signal becomes zero (observed by oscilloscope).</div> <div><div>Tracking offset waveform</div><div>Note : (1) Adjust VR501 so that the waveform is vertically symmetric with respect to the zero level.</div><div>(2) Input to the oscilloscope should be DC coupling.</div></div>	Set the center of P – P to the DC zero level.	VR501

■ Arrangement of adjusting positions : CD amplifier P.C. board

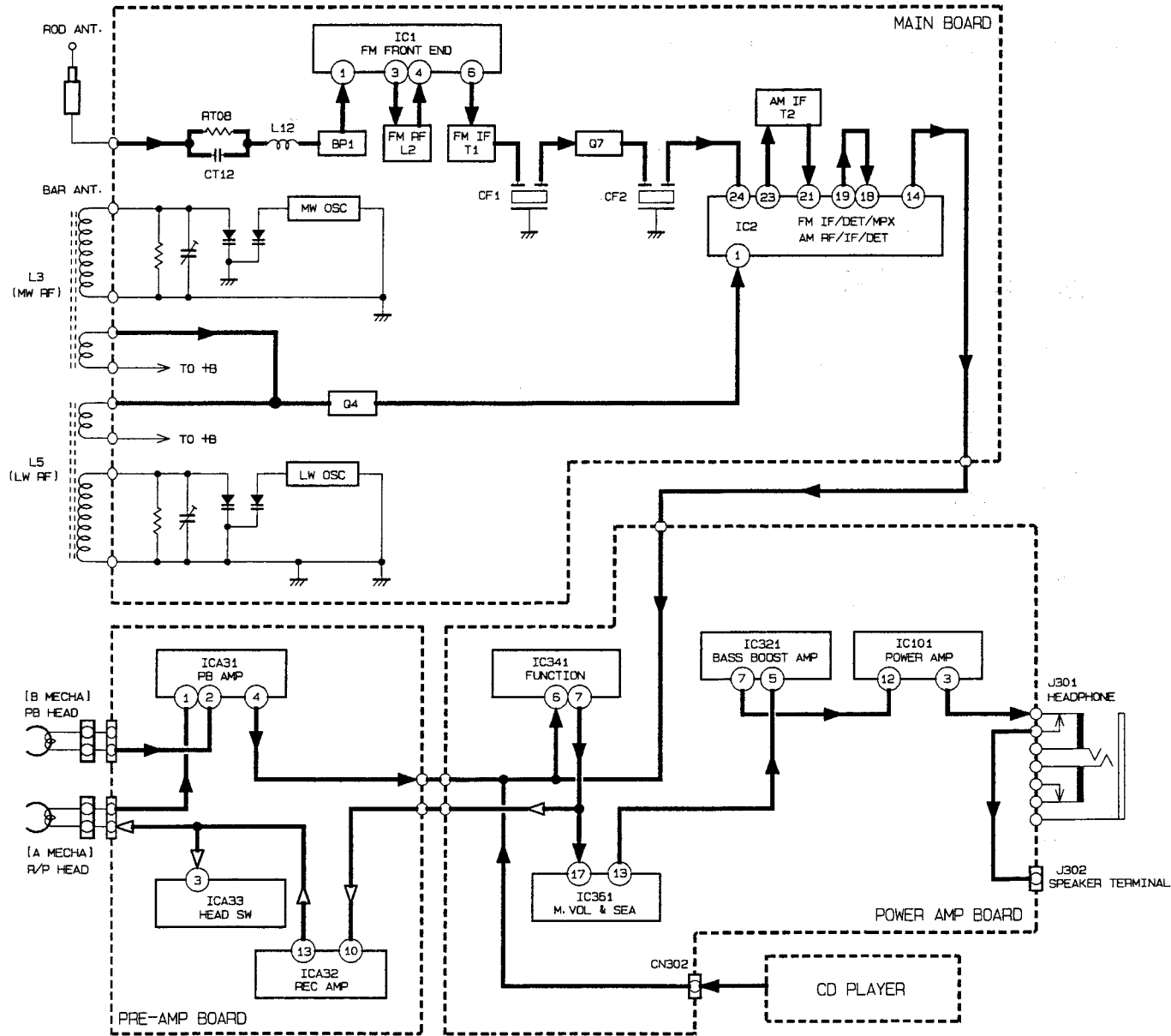


■ Arrangement of Adjust : Main P.C. board (All version)

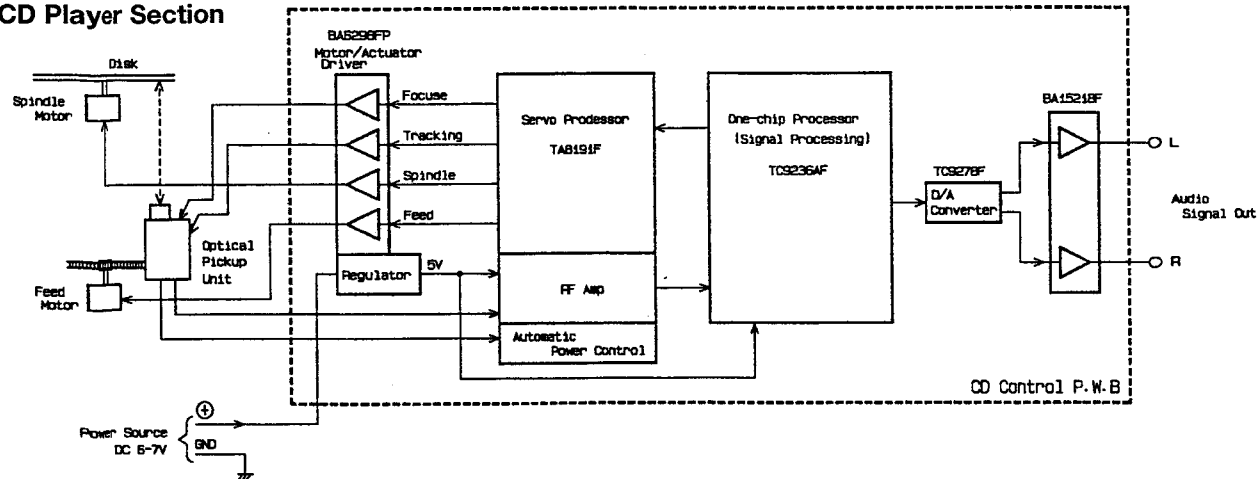


Block Daiagram

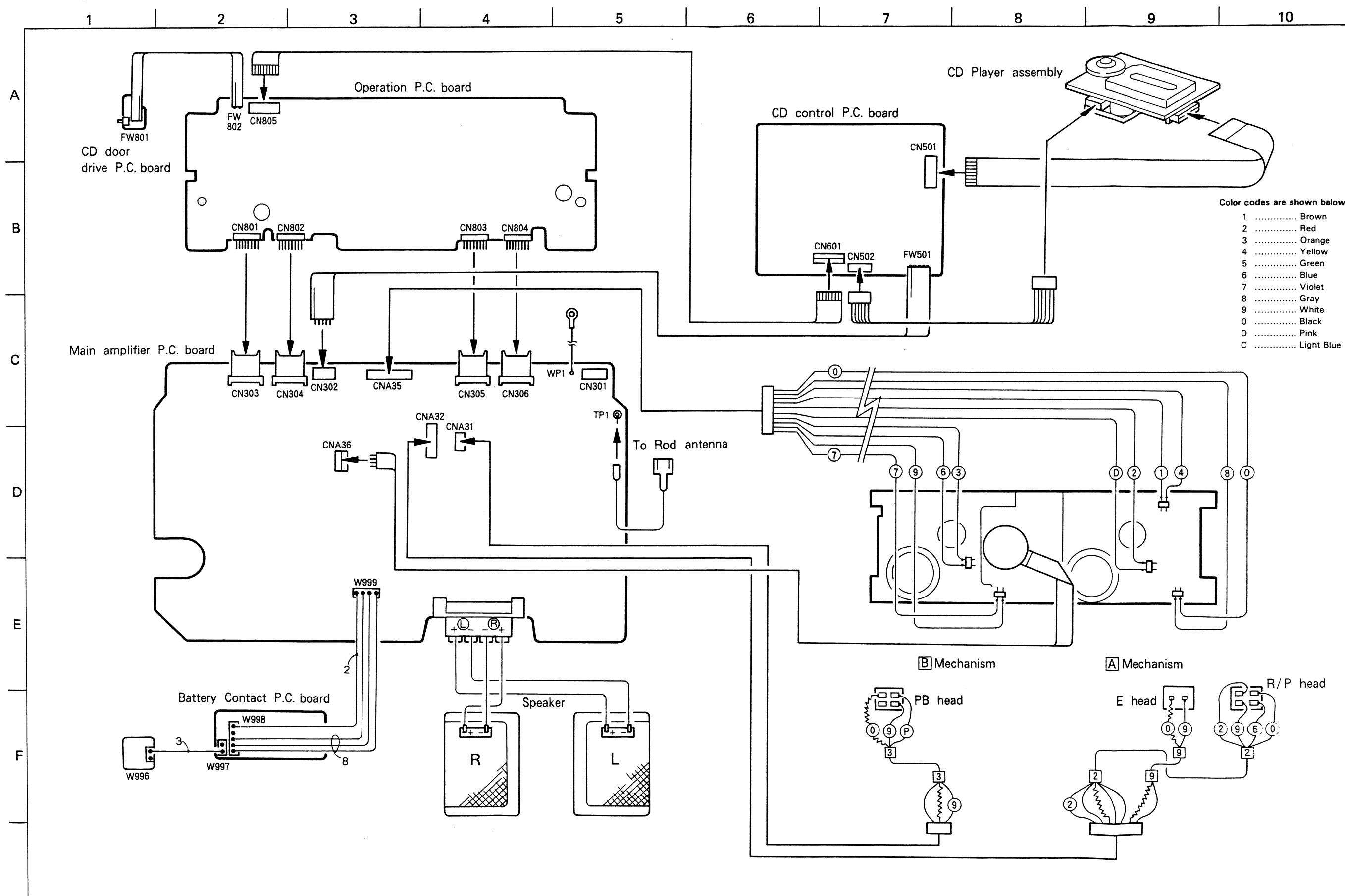
■ General Sction



■ CD Player Section

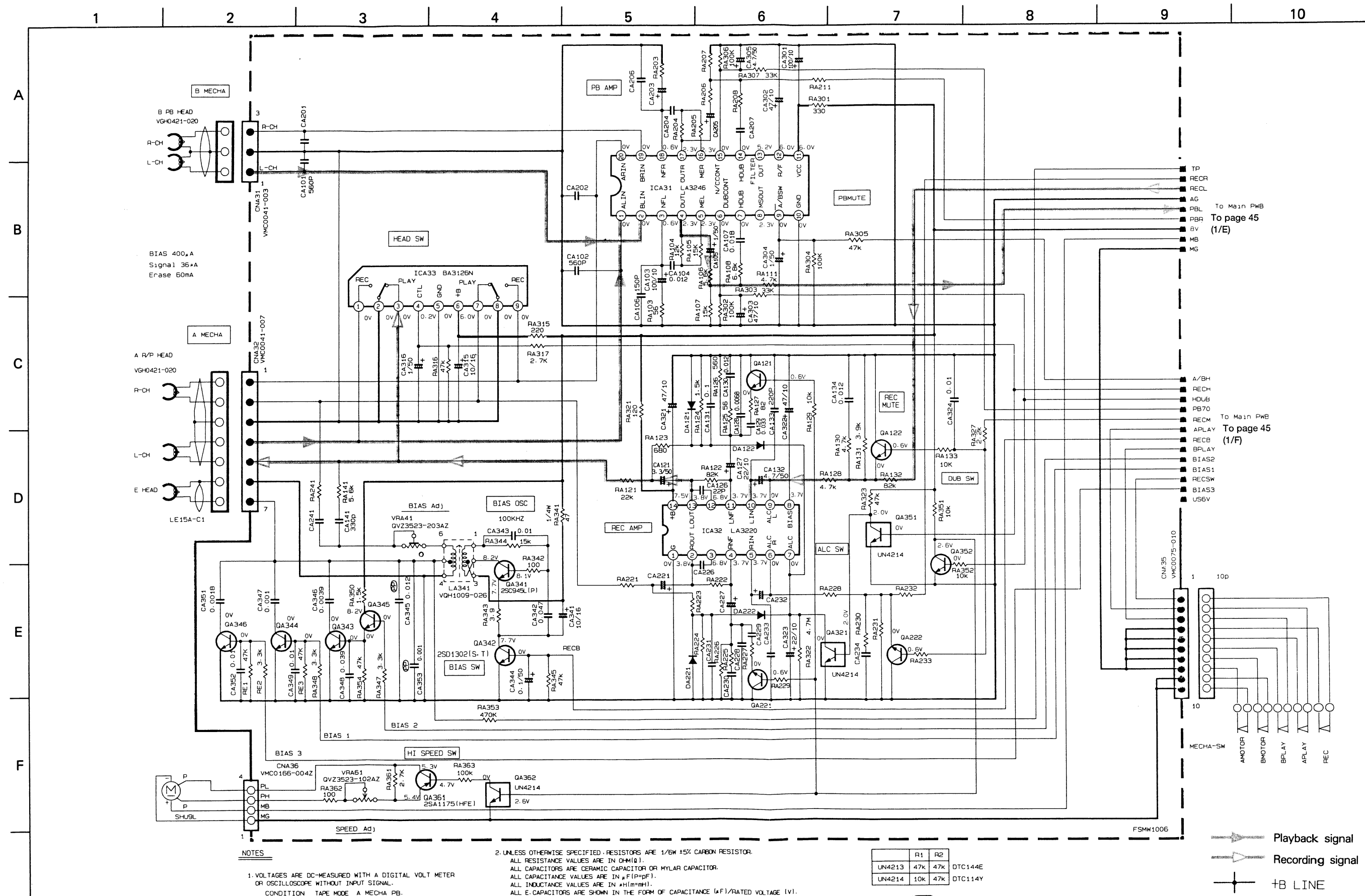


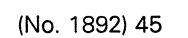
Wiring Connections



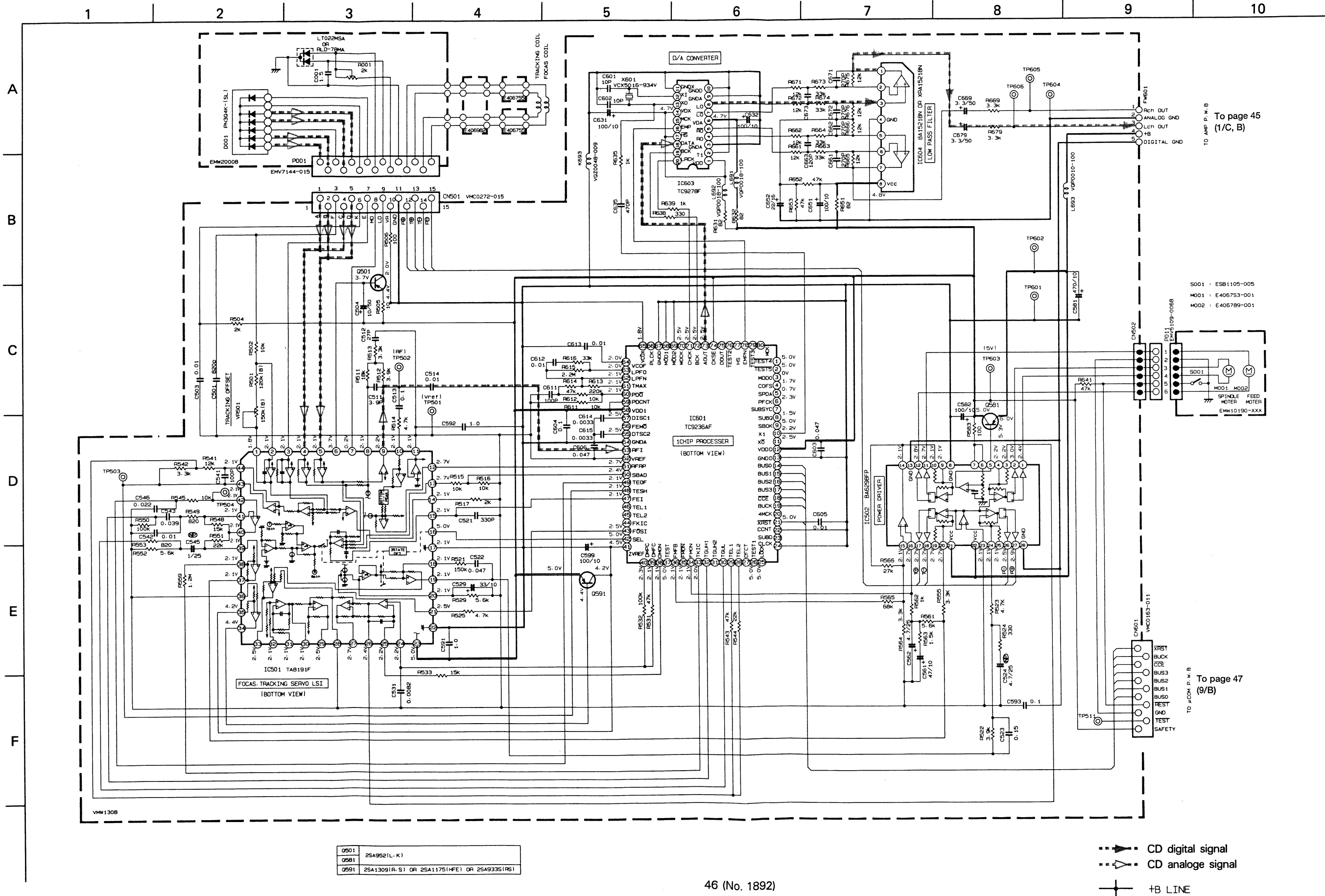
Standard Schematic Diagram

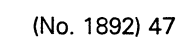
■ Pre-Amplifier Circuit: Drawing No. FSDH7001-006RW





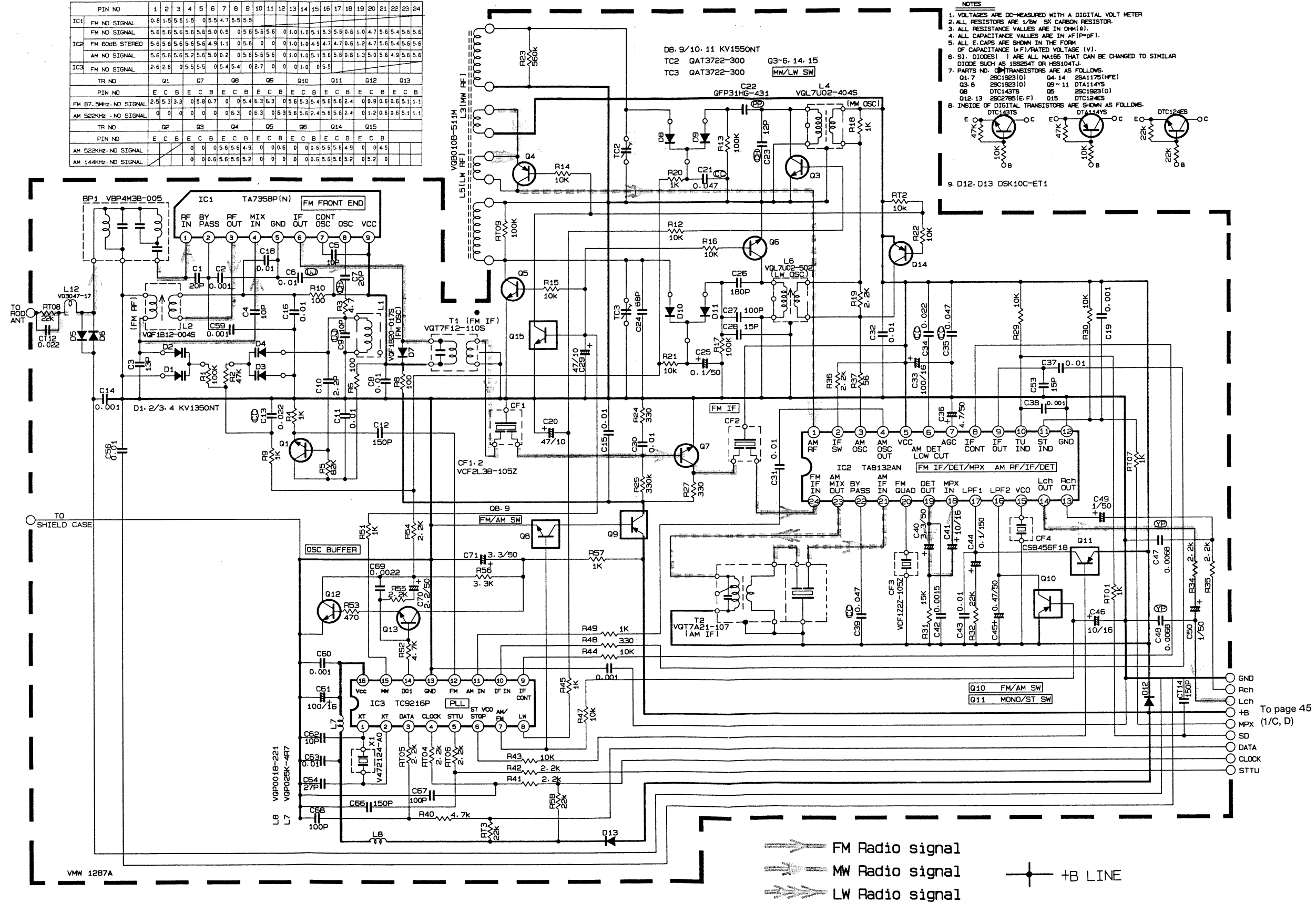
■ **CD Amplifier Circuit: Drawing No. FSDH7001-006CV**





■ Tuner Circuit: Drawing No. FSDH7001-005TW

PIN NO		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
IC1	FM NO SIGNAL	0.6	1.5	5.5	1.5	0.5	4.7	5.5	5.5																	
	FM 600B STEREO	5.6	5.6	5.6	5.6	5.6	5.0	0.5	0.5	5.6	5.6	5.6	0	1.0	1.0	5.1	5.3	0.6	1.0	4.7	5.6	5.4	5.6	5.5		
IC2	FM 600B STEREO	5.6	5.6	5.6	5.6	5.6	4.9	1.1	0	5.6	0	0	1.0	1.0	4.9	4.7	4.7	0.6	1.2	4.7	5.6	5.4	5.6	5.5		
	AM NO SIGNAL	5.6	5.6	5.6	5.2	5.6	5.0	0.2	0	5.6	5.6	5.6	0	1.0	1.0	5.1	5.6	5.6	0.6	1.3	5.0	5.6	4.9	5.6	5.5	
IC3	FM NO SIGNAL	2.6	2.6	0.5	5.5	5.5	0.4	5.4	0.2	0	0	1.0	0	0.1	0	0.5										
	TR NO	Q1					Q7			Q6				Q5			Q10		Q11		Q12			Q13		
PIN NO		E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	
FM 87.5MHz- NO SIGNAL		2.9	5.3	3.3		5.6	0.7	0	0	5.4	6.3	5.3		5.6	5.3	4.5	5.6	5.2	4		0.9	0.6	0.6	5.1	1.	
AM 522KHz- NO SIGNAL		0	0	0	0	0	0	0	0	5.6	3	0.6	3	0.6	5.6	5.2	4	5.6	5.2	4	1.2	0.6	0.6	5.1	1.	
TR NO		Q2			Q3					Q4				Q5			Q6			Q14			Q15			
PIN NO		E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	
AM 522KHz- NO SIGNAL						0	0	0	0	5.6	5.6	4.9	0	0	0	0	0	0	0	0.6	5.6	5.6	4.9	0	0	4.5
AM 144KHz- NO SIGNAL								0	0	0	0	0	0	0	0	0	0	0	0	0.6	5.6	5.5	5.2	0.5	2	0



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
2. ALL RESISTORS ARE 1/8W 5% CARBON RESISTOR.
3. ALL RESISTANCE VALUES ARE IN OHM(S).
4. ALL CAPACITANCE VALUES ARE IN nF(=pF).
5. ALL CAPS ARE SHOWN IN THE FORM OF CAPACITANCE (uF)/RATED VOLTAGE (V).
6. S1, DIODES() ARE ALL MA165 THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS 1S9520AT OR HS1004T.
7. PARTS NOT IN TRANSISTORS ARE AS FOLLOWS:
Q1: 7 2SC1923(0) Q4: 14 2SA1175(1HF)
Q3: 6 2SC1923(0) Q9: 11 DTA114YS
Q6 DTC143TS Q5 2SC1923(0)
Q12: D3 2SC785(F) Q15 DTC124ES
8. TYPE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.
DTC143TS DTA114YS DTC124ES
-
9. D12- D13 DSK10C-ET1

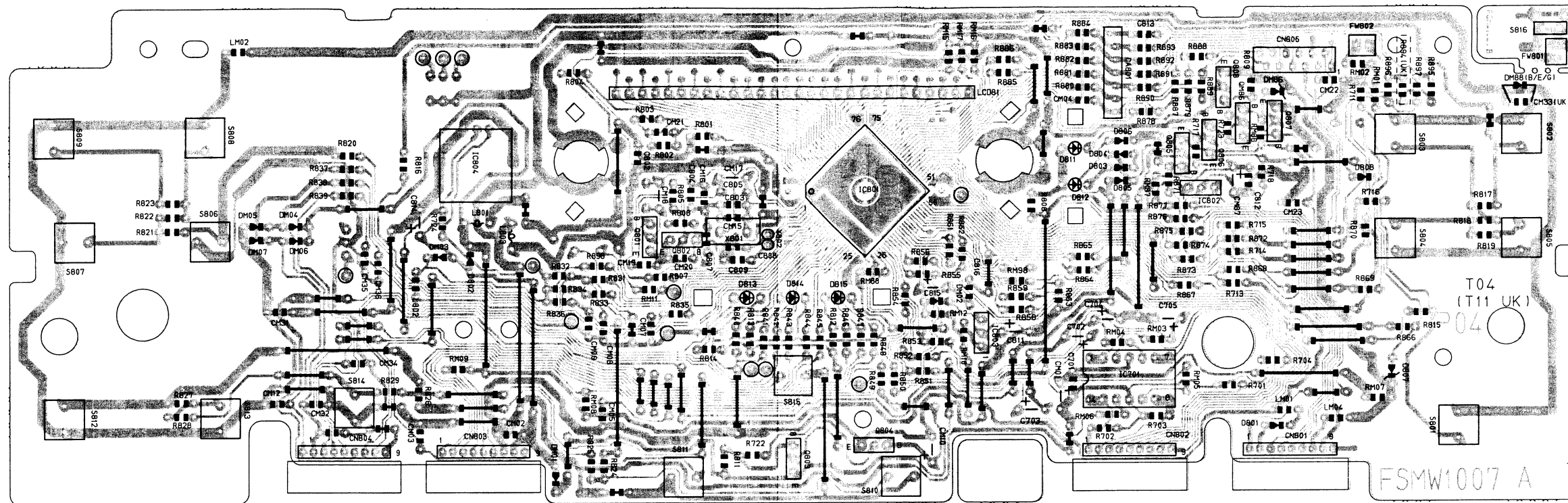
9. D12, D13 DSK10C-ET 1

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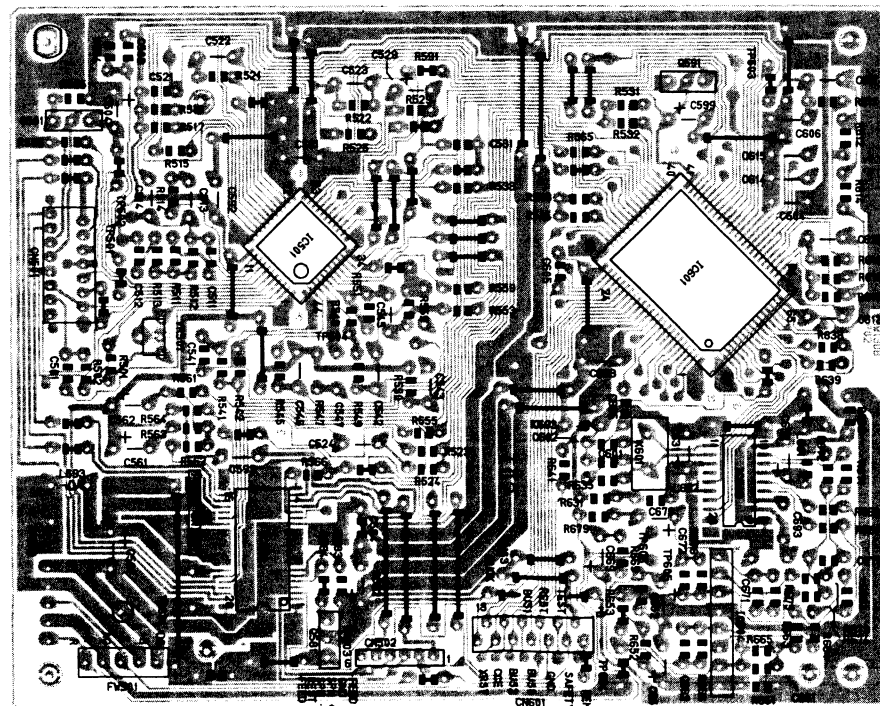
■ Main P.C. board: Drawing No. FSMW1006 / Block No. 01



■ System Micro Computer P.C. board: Drawing No. FSMW1007 / Block No. 0 3



■ CD Amplifier P.C. board:
Drawing No. VMW1308-P02 / Block No. 0 2



Electrical Parts List

Main P.C. board

BLOCK NO. 0011111111					
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	
BP 01	VBPA3B-005	BP FILTER	BPF		
C 001	QCT30CH-200Y	C.CAPACITOR	20PF 5% 50V		
C 002	QCB81HK-102Y	C.CAPACITOR	1000PF 10% 50V		
C 003	QCSB1HJ-130Y	C.CAPACITOR	13PF 5% 50V		
C 004	QCS11HJ-100	C.CAPACITOR	10PF 5% 50V		
C 005	QCT30UJ-100Y	C.CAPACITOR	10PF 5% 50V		
C 006	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V		
C 007	QCT30CH-200Y	C.CAPACITOR	20PF 5% 50V		
C 008	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V		
C 009	QCT30UJ-100Y	C.CAPACITOR	10PF 5% 50V		
C 010	QCSB1HK-2R2Y	C.CAPACITOR	2.2PF 10% 50V		
C 011	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V		
C 012	QCB81HK-151Y	C.CAPACITOR	150PF 10% 50V		
C 013	QCT11EM-233V	C.CAPACITOR	.022MF 20% 25V		
C 014	QCB81HK-102Y	C.CAPACITOR	1000PF 10% 50V		
C 015	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V		
C 016	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V		
C 018	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V		
C 019	QCB81HK-102Y	C.CAPACITOR	1000PF 10% 50V		
C 020	QETC1AM-476Z	E.CAPACITOR	47MF 20% 10V		
C 021	QCT11EM-473V	C.CAPACITOR	.047MF 20% 25V		
C 022	QCP31HG-4312M	PS CAPACITOR	430PF 2% 50V		
C 023	QCT30CH-120Y	C.CAPACITOR	12PF 5% 50V		
C 024	QCSB1HJ-680Y	C.CAPACITOR	68PF 5% 50V		
C 025	QETC1HM-104Z	E.CAPACITOR	.10MF 20% 50V		
C 026	QCS11HJ-181	C.CAPACITOR	180PF 5% 50V		
C 027	QCS11HJ-101	C.CAPACITOR	100PF 5% 50V		
C 028	QCS11HJ-150	C.CAPACITOR	15PF 5% 50V		
C 029	QETC1AM-476Z	E.CAPACITOR	47MF 20% 10V		
C 030	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V		
C 031	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V		
C 032	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V		
C 033	QETC1CN-107	E.CAPACITOR	100MF 20% 10V		
C 034	QCT11EM-223V	C.CAPACITOR	.022MF 20% 25V		
C 035	QCT11EM-473V	C.CAPACITOR	.047MF 20% 25V		
C 036	QETC1HM-475Z	E.CAPACITOR	4.7MF 20% 50V		
C 037	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V		
C 038	QCB81HK-102Y	C.CAPACITOR	1000PF 10% 50V		
C 039	QCT11EM-473V	C.CAPACITOR	.047MF 20% 25V		
C 040	QETC1HM-335Z	E.CAPACITOR	3.3MF 20% 50V		
C 041	QETC1CN-106Z	E.CAPACITOR	10MF 20% 16V		
C 042	QCVB1CN-152Y	C.CAPACITOR	1500PF 20% 16V		
C 043	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V		
C 044	QETC1HM-104Z	E.CAPACITOR	.10MF 20% 50V		
C 045	QETC1HM-474Z	E.CAPACITOR	.47MF 20% 50V		
C 046	QETC1CN-106Z	E.CAPACITOR	10MF 20% 16V		
C 047	QCV31HK-682Z	C.CAPACITOR	6800PF 10% 50V		
C 048	QCV31HK-682Z	C.CAPACITOR	6800PF 10% 50V		
C 049	QETC1HM-105Z	E.CAPACITOR	1.0MF 20% 50V		
C 050	QETC1HM-105Z	E.CAPACITOR	1.0MF 20% 50V		
C 053	QCT30CH-150Y	C.CAPACITOR	15PF 5% 50V		
C 056	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V		
C 059	QCB81HK-102Y	C.CAPACITOR	1000PF 10% 50V		
C 060	QCB81HK-102Y	C.CAPACITOR	1000PF 10% 50V		
C 061	QETC1CN-107	E.CAPACITOR	100MF 20% 16V		
BLOCK NO. 0021111111					
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	
C 062	QCS11HJ-100	C.CAPACITOR	10PF 5% 50V		
C 063	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V		
C 064	QCSB1HJ-270Y	C.CAPACITOR	27PF 5% 50V		
C 066	QCB81HK-151Y	C.CAPACITOR	150PF 10% 50V		
C 067	QCB81HK-101Y	C.CAPACITOR	100PF 10% 50V		
C 068	QCB81HK-101Y	C.CAPACITOR	100PF 10% 50V		
C 069	QCB81CN-222Y	C.CAPACITOR	220PF 20% 16V		
C 070	QETC1HM-225ZN	E.CAPACITOR	2.2MF 20% 50V		
C 071	QETC1HM-335Z	E.CAPACITOR	3.3MF 20% 50V		
C 101	QETC1AM-476Z	E.CAPACITOR	47MF 20% 10V		
C 102	QETC1AM-476Z	E.CAPACITOR	47MF 20% 10V		
C 103	QCB81HK-101Y	C.CAPACITOR	100PF 10% 50V		
C 104	QETC1AM-227Z	E.CAPACITOR	220MF 20% 10V		
C 107	QETC1AM-227Z	E.CAPACITOR	220MF 20% 10V		
C 108	QETC1AM-227Z	E.CAPACITOR	220MF 20% 10V		
C 109	QCT11EM-104V	C.CAPACITOR	.10MF 20% 25V		
C 110	QCT11EM-104V	C.CAPACITOR	.10MF 20% 25V		
C 111	QETC1CN-107	E.CAPACITOR	100MF 20% 16V		
C 121	QETC1HM-475Z	E.CAPACITOR	4.7MF 20% 50V		
C 122	QCS11HJ-330	C.CAPACITOR	33PF 5% 50V		
C 123	QETC1HM-475Z	E.CAPACITOR	4.7MF 20% 50V		
C 124	QFN31HJ-333Z	M.CAPACITOR	.033MF 5% 50V		
C 125	QEK61HM-105Z	E.CAPACITOR	1.0MF 20% 50V		
C 141	QEK61HM-335ZN	E.CAPACITOR	3.3MF 20% 50V		
C 142	QCS11HJ-470	C.CAPACITOR	47PF 5% 50V		
C 143	QFLC1HJ-683	M.CAPACITOR	.068MF 5% 50V		
C 144	QETC1HM-225ZN	E.CAPACITOR	2.2MF 20% 50V		
C 151	QCVB1CN-472Y	C.CAPACITOR	4700PF 20% 16V		
C 152	QCVB1CN-472Y	C.CAPACITOR	4700PF 20% 16V		
C 161	QETC1HM-225ZN	E.CAPACITOR	2.2MF 20% 50V		
C 181	QFV11HJ-184ZN	TF.CAPACITOR	.18MF 5% 50V		
C 182	QER61HM-4752M	E.CAPACITOR	4.7MF 20% 50V		
C 201	QETC1AM-476Z	E.CAPACITOR	47MF 20% 10V		
C 202	QETC1AM-476Z	E.CAPACITOR	47MF 20% 10V		
C 203	QCB81HK-101Y	C.CAPACITOR	100PF 10% 50V		
C 204	QETC1AM-227Z	E.CAPACITOR	220MF 20% 10V		
C 207	QETC1AM-227Z	E.CAPACITOR	220MF 20% 10V		
C 208	QETC1AM-227Z	E.CAPACITOR	220MF 20% 10V		
C 209	QCT11EM-104V	C.CAPACITOR	.10MF 20% 25V		
C 210	QCT11EM-104V	C.CAPACITOR	.10MF 20% 25V		
C 211	QETC1CN-107	E.CAPACITOR	100MF 20% 16V		
C 221	QETC1HM-475Z	E.CAPACITOR	4.7MF 20% 50V		
C 222	QCS11HJ-330	C.CAPACITOR	33PF 5% 50V		
C 223	QETC1HM-475Z	E.CAPACITOR	4.7MF 20% 50V		
C 224	QFN31HJ-333Z	M.CAPACITOR	.033MF 5% 50V		
C 225	QEK61HM-105Z	E.CAPACITOR	1.0MF 20% 50V		
C 241	QEK61HM-335ZN	E.CAPACITOR	3.3MF 20% 50V		
C 242	QCS11HJ-470	E.CAPACITOR	47PF 5% 50V		
C 243	QFLC1HJ-683	M.CAPACITOR	.068MF 5% 50V		
C 244	QETC1HM-225ZN	E.CAPACITOR	2.2MF 20% 50V		
C 251	QCVB1CN-472Y	C.CAPACITOR	4700PF 20% 16V		
C 252	QCVB1CN-472Y	C.CAPACITOR	4700PF 20% 16V		
C 261	QETC1HM-225ZN	E.CAPACITOR	2.2MF 20% 50V		
C 281	QFV11HJ-184ZN	TF.CAPACITOR	.18MF 5% 50V		
C 282	QER61HM-4752M	E.CAPACITOR	4.7MF 20% 50V		

BLOCK NO. 01

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 301	QETB1EM-478E	E.CAPACITOR	4700MF 20% 25V	
C 302	QETC1AM-227Z	E.CAPACITOR	220MF 20% 10V	
C 321	QCVB1CM-103Y	C.CAPACITOR	-010MF 20% 16V	
C 322	QETC1AM-476Z	E.CAPACITOR	47MF 20% 10V	
C 323	QCVB1CM-103Y	C.CAPACITOR	-010MF 20% 16V	
C 324	QEK61HM-223ZM	E.CAPACITOR	2.2MF 20% 50V	
C 341	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
C 342	QEK61AM-107Z	E.CAPACITOR	100MF 20% 10V	
C 353	QETC1AM-475Z	E.CAPACITOR	4.7MF 20% 50V	
C 362	QEK61EM-475Z	E.CAPACITOR	4.7MF 20% 25V	
C 363	QETC1HM-475Z	E.CAPACITOR	4.7MF 20% 50V	
C 364	QEK61EM-475Z	E.CAPACITOR	4.7MF 20% 25V	
C 365	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
C 366	QETC1AM-476Z	E.CAPACITOR	47MF 20% 10V	
C 367	QETC1AM-476Z	E.CAPACITOR	47MF 20% 10V	
C 368	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
C 369	QEK61EM-475Z	E.CAPACITOR	4.7MF 20% 25V	
C 370	QETC1HM-475Z	E.CAPACITOR	4.7MF 20% 50V	
C 371	QETC1AM-227Z	E.CAPACITOR	220MF 20% 10V	
C 372	QETC1AM-227Z	E.CAPACITOR	220MF 20% 10V	
C 373	QETC1AM-476Z	E.CAPACITOR	47MF 20% 10V	
C 381	QETC1HM-105Z	E.CAPACITOR	1.0MF 20% 50V	
C 382	QETC1HM-474Z	E.CAPACITOR	-47MF 20% 50V	
C 383	QFV11HJ-393ZM	TF.CAPACITOR	-039MF 5% 50V	
C 384	QETC1HM-105Z	E.CAPACITOR	1.0MF 20% 50V	
C 385	QFV11HJ-104ZM	TF.CAPACITOR	-10MF 5% 50V	
C 386	QETC1AM-227Z	E.CAPACITOR	220MF 20% 10V	
C 901	QETC1CM-107	E.CAPACITOR	100MF 20% 16V	
C 902	QCVB1CM-103Y	C.CAPACITOR	-010MF 30% 16V	
C 903	QCVB1CM-222Y	C.CAPACITOR	220QPF 20% 16V	
C 904	QCV11EM-104V	C.CAPACITOR	-10MF 20% 25V	
C 906	QETC1AM-227Z	E.CAPACITOR	220MF 20% 10V	
C 911	QETC1AM-227Z	E.CAPACITOR	220MF 20% 10V	
C 921	QETC1AM-226ZM	E.CAPACITOR	22MF 20% 10V	
C 922	QCVB1CM-103Y	C.CAPACITOR	-010MF 30% 16V	
C 923	QCVB1HK-331Y	C.CAPACITOR	330PF 10% 50V	
C 924	QFV71HJ-683ZM	TF.CAPACITOR	-068MF 5% 50V	
C 925	QFV41HJ-224	TF.CAPACITOR	-22MF 5% 50V	
C 932	QETC1EM-107Z	E.CAPACITOR	100MF 20% 25V	
C 991	QCVB1CM-103Y	C.CAPACITOR	-010MF 30% 16V	
C 996	QFV41HJ-224	TF.CAPACITOR	-22MF 5% 50V	
C 997	QFV41HJ-224	TF.CAPACITOR	-22MF 5% 50V	
C 998	QFV41HJ-224	TF.CAPACITOR	-22MF 5% 50V	
C 999	QFV41HJ-224	TF.CAPACITOR	-22MF 5% 50V	
CA101	QCVB1HK-561Y	C.CAPACITOR	560PF 10% 50V	
CA102	QCVB1HK-561Y	C.CAPACITOR	560PF 10% 50V	
CA103	QEK61AM-107Z	E.CAPACITOR	100MF 20% 10V	
CA104	QFN31HJ-123Z	M.CAPACITOR	-012MF 5% 50V	
CA105	QEK61HM-105Z	E.CAPACITOR	1.0MF 20% 50V	
CA106	QCVB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
CA107	QFV11HJ-183ZM	TF.CAPACITOR	-018MF 5% 50V	
CA121	QETC1HM-335Z	E.CAPACITOR	3.3MF 20% 50V	
CA126	QCVB1HK-220Y	C.CAPACITOR	22PF 5% 50V	
CA127	QETC1AM-226ZM	E.CAPACITOR	22MF 20% 10V	
CA128	QCVB1CM-682Y	C.CAPACITOR	680QPF 20% 16V	

BLOCK NO. 01

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
CA129	QFV11HJ-333ZM	TF.CAPACITOR	-033MF 5% 50V	
CA130	QFN31HJ-123Z	M.CAPACITOR	-012MF 5% 50V	
CA131	QFV11HJ-104ZM	M.CAPACITOR	-10MF 5% 50V	
CA132	QETC1HM-475Z	E.CAPACITOR	4.7MF 20% 50V	
CA133	QCVB1HK-221Y	C.CAPACITOR	220PF 10% 50V	
CA134	QFN31HJ-123Z	M.CAPACITOR	-012MF 5% 50V	
CA141	QCVB1HK-331Y	C.CAPACITOR	330PF 10% 50V	
CA201	QCVB1HK-561Y	C.CAPACITOR	560PF 10% 50V	
CA202	QCVB1HK-561Y	C.CAPACITOR	560PF 10% 50V	
CA203	QEK61AM-107Z	E.CAPACITOR	100MF 20% 10V	
CA204	QFN31HJ-123Z	M.CAPACITOR	-012MF 5% 50V	
CA205	QEK61HM-105Z	E.CAPACITOR	1.0MF 20% 50V	
CA206	QCVB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
CA207	QFV11HJ-183ZM	TF.CAPACITOR	-018MF 5% 50V	
CA221	QETC1HM-335Z	E.CAPACITOR	3.3MF 20% 50V	
CA226	QCVB1HK-220Y	C.CAPACITOR	22PF 5% 50V	
CA227	QETC1AM-226ZM	E.CAPACITOR	22MF 20% 10V	
CA228	QCVB1CM-682Y	C.CAPACITOR	680QPF 20% 16V	
CA229	QFV11HJ-333ZM	TF.CAPACITOR	-033MF 5% 50V	
CA230	QFN31HJ-123Z	M.CAPACITOR	-012MF 5% 50V	
CA231	QFV11HJ-104ZM	M.CAPACITOR	-10MF 5% 50V	
CA232	QETC1HM-475Z	E.CAPACITOR	4.7MF 20% 50V	
CA233	QCVB1HK-221Y	C.CAPACITOR	220PF 10% 50V	
CA234	QFN31HJ-123Z	M.CAPACITOR	-012MF 5% 50V	
CA241	QCVB1HK-331Y	C.CAPACITOR	330PF 10% 50V	
CA301	QEK61AM-107Z	E.CAPACITOR	100MF 20% 10V	
CA302	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
CA303	QETC1AM-476Z	E.CAPACITOR	47MF 20% 10V	
CA304	QETC1HM-475Z	E.CAPACITOR	4.7MF 20% 50V	
CA305	QEK61HM-475ZM	E.CAPACITOR	4.7MF 20% 50V	
CA315	QETC1CM-106Z	E.CAPACITOR	10MF 20% 16V	
CA316	QEK61HM-105Z	E.CAPACITOR	1.0MF 20% 50V	
CA321	QETC1AM-476Z	E.CAPACITOR	47MF 20% 10V	
CA322	QETC1AM-476Z	E.CAPACITOR	47MF 20% 10V	
CA323	QETC1AM-226ZM	E.CAPACITOR	22MF 20% 10V	
CA324	QCVB1CM-103Y	C.CAPACITOR	-010MF 30% 16V	
CA341	QETC1CM-106Z	E.CAPACITOR	10MF 20% 16V	
CA342	QFV11HJ-473ZM	TF.CAPACITOR	-047MF 5% 50V	
CA343	QFN31HJ-103Z	M.CAPACITOR	-010MF 5% 50V	
CA344	QETC1HM-104Z	E.CAPACITOR	-10MF 20% 50V	
CA345	QFV32AJ-123ZM	PP.CAPACITOR	-012MF 5% 100V	
CA346	QFN41HJ-222	M.CAPACITOR	220QPF 5% 50V	
CA347	QFP31HJ-102ZM	PP.CAPACITOR	100QPF 5% 50V	
CA348	QCC31EM-393ZV	C.CAPACITOR	-039MF 20% 25V	
CA349	QCVB1CM-103Y	C.CAPACITOR	-010MF 30% 16V	
CA351	QFP31HJ-152Z	PP.CAPACITOR	150QPF 5% 50V	
CA352	QCVB1CM-103Y	C.CAPACITOR	-010MF 30% 16V	
CF 01	VCFL3B-105	C.FILTER		
CF 02	VCFL3B-105	C.FILTER		
CF 03	VCFL2Z-105Z	C.FILTER		
CF 04	CSB456F18	CERA LOCK		
CNA31	VMC0040-003	CONNECTOR		
CNA32	VMC0040-007	CONNECTOR		
CNA33	VMC0075-010	CONNECTOR		
CNA36	VMC0166-004Z	CONNECTOR		

BLOCK NO. 04

A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
IC321	NJM4580L	I.C		
IC322	NJM4580L	I.C		
IC341	BA15218N	I.C.	SEA & E VOL AMP	
IC361	CXA1352AS	I.C.		
J 301	VMJ4024-001	JACK		
J 302	EMB90YV-401A	SPK. TERMINAL		
J 998	GMA431B-V01	DC JACK		
J 999	QMC0263-004	AC SOCKET		
L 001	VQF1B20-017	OSC COIL		
L 002	VQF1B12-004	RF COIL		
L 003	VQB010B-511	BAR ANTENA		
L 004	VQM7U02-404	OSC COIL		
L 006	VQL7U02-502	OSC COIL (LW)		
L 007	VQP025K-4R7Y	INDUCTOR I/M		
L 008	VQP0018-221	INDUCTOR		
L 012	VQ3047-17	INDUCTOR		
L 351	VQ20048-009	INDUCTOR I/M		
L 906	VQP0010-100	INDUCTOR		
LA341	VQH1009-026	OSC COIL		
Q 001	2SC1923(C)	TRANSISTOR I/M		
Q 003	2SC1923(C)	TRANSISTOR I/M		
Q 004	2SA1175	TRANSISTOR I/M		
Q 005	2SC1923(C)	TRANSISTOR I/M		
Q 006	2SC1923(C)	TRANSISTOR I/M		
Q 007	2SC1923(C)	TRANSISTOR I/M		
Q 008	DT114YS	TRANSISTOR I/M		
Q 009	DTA114YS	TRANSISTOR I/M		
Q 010	DTA114YS	TRANSISTOR I/M		
Q 011	DTA114YS	TRANSISTOR I/M		
Q 012	2SC2785(CHFE)	TRANSISTOR I/M		
Q 013	2SC2785(CHFE)	TRANSISTOR I/M		
Q 014	2SA1175	TRANSISTOR I/M		
Q 015	DT124ES	TRANSISTOR I/M		
Q 121	2SK301(P,Q)	FET I/M		
Q 153	2SC2001(L,K)	TRANSISTOR I/M		
Q 181	2SD1302(S,T)	TRANSISTOR I/M		
Q 182	2SD1302(S,T)	TRANSISTOR I/M		
Q 183	2SD1302(S,T)	TRANSISTOR I/M		
Q 221	2SK301(P,Q)	FET I/M		
Q 253	2SC2001(L,K)	TRANSISTOR I/M		
Q 281	2SD1302(S,T)	TRANSISTOR I/M		
Q 282	2SD1302(S,T)	TRANSISTOR I/M		
Q 283	2SD1302(S,T)	TRANSISTOR I/M		
Q 381	2SA1175	TRANSISTOR I/M		
Q 382	2SC1740S(R,S)	TRANSISTOR I/M		
Q 901	2SB772(Q,P)	TRANSISTOR I/M		
Q 902	2SC2785(CHFE)	TRANSISTOR I/M		
Q 903	2SC2785(CHFE)	TRANSISTOR I/M		
Q 904	2SC2785(CHFE)	TRANSISTOR I/M		
Q 911	2SA952(L,K)	TRANSISTOR I/M		
Q 921	2SB1375	TRANSISTOR		
Q 922	2SC2785(CHFE)	TRANSISTOR I/M		
Q 923	2SC2785(CHFE)	TRANSISTOR I/M		
Q 931	2SB562(C)	TRANSISTOR		
Q 932	2SC2785(CHFE)	TRANSISTOR I/M		

BLOCK NO. 04

A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
CM301	VMC0238-004Z	CONNECTOR I/M	TEST-POINT	
CM302	VMC0107-R05	CONNECTOR	TO CD	
CM303	VMC0192-S09	CONNECTOR	TO U-COM	
CM304	VMC0192-S09	CONNECTOR	TO U-COM	
CM305	VMC0192-S09	CONNECTOR	TO U-COM	
CM306	VMC0192-S09	CONNECTOR	TO U-COM	
CM991	TTL25V-003	CONNECTOR I/M		
CS 01	QCVB1CN-103Y	C-CAPACITOR	-010MF 30% 16V	
CT012	QCC11EM-223V	C-CAPACITOR	-022MF 20% 25V	
CT014	QCB1HK-151Y	C-CAPACITOR	150PF 10% 50V	
CT017	QCB1HK-151Y	C-CAPACITOR	150PF 10% 50V	
D 001	KV1350NT	V-CAPACITOR		
D 002	KV1350NT	V-CAPACITOR		
D 003	KV1350NT	V-CAPACITOR		
D 004	KV1350NT	V-CAPACITOR		
D 005	1SS133	DIODE I/M		
D 006	1SS133	DIODE I/M		
D 007	1SS133	DIODE I/M		
D 008	KV1550NTA	V-CAPACITOR		
D 009	KV1550NTA	V-CAPACITOR		
D 010	KV1550NTA	V-CAPACITOR		
D 011	KV1550NTA	V-CAPACITOR		
D 012	DSK10C-E	SI DIODE		
D 013	DSK10C-E	SI DIODE		
D 351	1SS133	DIODE I/M		
D 352	1SS133	DIODE I/M		
D 361	RD5.1JSAB1	Z-DIODE I/M		
D 381	MA700A	DIODE I/M		
D 382	MA700A	DIODE I/M		
D 383	MT25.1JB	DIODE I/M		
D 384	1SS133	DIODE I/M		
D 901	MA4075(M)	DIODE I/M		
D 902	1SS133	DIODE I/M		
D 903	1SS133	DIODE I/M		
D 911	DSK10C-E	SI DIODE		
D 921	RD5.1JSAB1	Z DIODE I/M		
D 922	1SS133	DIODE I/M		
D 991	1SS133	DIODE I/M		
D 995	1N5401M	DIODE		
D 996	1N5401M	DIODE		
D 997	1N5401M	DIODE		
D 998	1N5401M	DIODE		
D 999	1N5401M	DIODE		
DA121	1SS133	DIODE I/M		
DA122	1SS133	DIODE I/M		
DA221	1SS133	DIODE I/M		
DA222	1SS133	DIODE I/M		
IC 01	TA7358P(N)	I.C.		
IC 02	TAB132AN	I.C.		
IC 03	TC9216P	I.C.		
ICA31	LA3246	I.C.		
ICA32	LA3220	I.C.		
ICA33	BA126N	I.C.		
IC101	TAB229K	IC		
IC201	TAB229K	IC		

BLOCK NO. 04

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 045	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
	R 047	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	R 048	QRD161J-331Y	C.RESISTOR	330 5% 1/6W	
	R 049	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
	R 051	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
	R 052	QRD161J-472Y	C.RESISTOR	4.7K 5% 1/6W	
	R 053	QRD161J-471	C.RESISTOR	470 5% 1/6W	
	R 054	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
	R 055	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
	R 056	QRD161J-332	C.RESISTOR	3.3K 5% 1/6W	
	R 057	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
	R 058	QRD161J-223	C.RESISTOR	22K 5% 1/6W	
	R 101	QRD161J-331Y	C.RESISTOR	330 5% 1/6W	
	R 102	QRD161J-331Y	C.RESISTOR	330 5% 1/6W	
	R 105	QRD161J-273	C.RESISTOR	27K 5% 1/6W	
	R 106	QRD161J-2R2	C.RESISTOR	2.2 5% 1/6W	
	R 107	QRD161J-2R2	C.RESISTOR	2.2 5% 1/6W	
	R 108	QRD161J-121	C.RESISTOR	120 5% 1/6W	
	R 121	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
	R 122	QRD161J-273	C.RESISTOR	27K 5% 1/6W	
	R 123	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	R 125	QRD161J-394	C.RESISTOR	390K 5% 1/6W	
	R 126	QRD161J-561	C.RESISTOR	560 5% 1/6W	
	R 127	QRD161J-105	C.RESISTOR	1.0M 5% 1/6W	
	R 128	QRD161J-105	C.RESISTOR	1.0M 5% 1/6W	
	R 141	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
	R 142	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
	R 143	QRD161J-393	C.RESISTOR	39K 5% 1/6W	
	R 146	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	R 151	QRD161J-273	C.RESISTOR	27K 5% 1/6W	
	R 152	QRD161J-183	C.RESISTOR	18K 5% 1/6W	
	R 153	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
	R 155	QRD161J-273	C.RESISTOR	27K 5% 1/6W	
	R 157	QRD161J-682	C.RESISTOR	6.8K 5% 1/6W	
	R 158	QRD161J-273	C.RESISTOR	27K 5% 1/6W	
	R 161	QRD161J-332	C.RESISTOR	3.3K 5% 1/6W	
	R 181	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
	R 183	QRD161J-122	C.RESISTOR	1.2K 5% 1/6W	
	R 184	QRD161J-472Y	C.RESISTOR	4.7K 5% 1/6W	
	R 185	QRD161J-331Y	C.RESISTOR	330 5% 1/6W	
	R 186	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
	R 187	QRD161J-475	C.RESISTOR	4.7M 5% 1/6W	
	R 188	QRD161J-475	C.RESISTOR	4.7M 5% 1/6W	
	R 201	QRD161J-331Y	C.RESISTOR	330 5% 1/6W	
	R 202	QRD161J-331Y	C.RESISTOR	330 5% 1/6W	
	R 205	QRD161J-273	C.RESISTOR	27K 5% 1/6W	
	R 206	QRD161J-2R2	C.RESISTOR	2.2 5% 1/6W	
	R 207	QRD161J-2R2	C.RESISTOR	2.2 5% 1/6W	
	R 208	QRD161J-121	C.RESISTOR	120 5% 1/6W	
	R 221	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
	R 222	QRD161J-273	C.RESISTOR	27K 5% 1/6W	
	R 223	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	R 225	QRD161J-394	C.RESISTOR	390K 5% 1/6W	
	R 226	QRD161J-561	C.RESISTOR	560 5% 1/6W	
	R 227	QRD161J-105	C.RESISTOR	1.0M 5% 1/6W	

BLOCK NO. 04

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	Q 941	2SB562(C)	TRANSISTOR I/M		
	Q 942	2SC2785(HFE)	TRANSISTOR I/M		
	Q 991	DTA144ES	TRANSISTOR I/M	HDUB EQ	
	QA121	2SC2785(HFE)	TRANSISTOR I/M	REC MUTE	
	QA122	2SC2785(HFE)	TRANSISTOR I/M	HDUB EQ	
	QA221	2SC2785(HFE)	TRANSISTOR I/M	REC MUTE	
	QA222	2SC2785(HFE)	TRANSISTOR I/M	ALC SW	
	QA321	DTC114YS	TRANSISTOR I/M		
	QA341	2SC945L(P,Q)	TRANSISTOR I/M		
	QA342	2SC2001(L,K)	TRANSISTOR I/M		
	QA343	2SC2785(HFE)	TRANSISTOR I/M		
	QA344	2SC2785(HFE)	TRANSISTOR I/M		
	QA345	2SC2785(HFE)	TRANSISTOR I/M		
	QA346	2SC2785(HFE)	TRANSISTOR I/M		
	QA351	DTC144ES	TRANSISTOR I/M		
	QA352	2SC2785(HFE)	TRANSISTOR I/M		
	QA361	2SA1175	TRANSISTOR I/M		
	R 001	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
	R 002	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
	R 003	QRD161J-4R7	C.RESISTOR	4.7 5% 1/6W	
	R 004	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
	R 005	QRD161J-823	C.RESISTOR	82K 5% 1/6W	
	R 006	QRD161J-101	C.RESISTOR	100 5% 1/6W	
	R 008	QRD161J-101	C.RESISTOR	100 5% 1/6W	
	R 009	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
	R 010	QRD161J-101	C.RESISTOR	100 5% 1/6W	
	R 012	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	R 013	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
	R 014	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	R 015	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	R 016	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	R 017	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
	R 018	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
	R 019	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
	R 020	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
	R 021	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	R 022	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	R 023	QRD161J-564	C.RESISTOR	560K 5% 1/6W	
	R 024	QRD161J-331Y	C.RESISTOR	330 5% 1/6W	
	R 025	QRD161J-334	C.RESISTOR	330K 5% 1/6W	
	R 027	QRD161J-331Y	C.RESISTOR	330 5% 1/6W	
	R 029	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	R 030	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	R 031	QRD161J-153	C.RESISTOR	15K 5% 1/6W	
	R 032	QRD161J-223	C.RESISTOR	22K 5% 1/6W	
	R 034	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
	R 035	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
	R 036	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
	R 037	QRD161J-560	C.RESISTOR	56 5% 1/6W	
	R 040	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
	R 041	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
	R 042	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
	R 043	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	R 044	QRD161J-103	C.RESISTOR	10K 5% 1/6W	

BLOCK NO. 01111111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R	925	QRD161J-224	C.RESISTOR	220K 5% 1/6W	
R	926	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R	927	QRD161J-822	C.RESISTOR	8.2K 5% 1/6W	
R	928	QRD161J-822	C.RESISTOR	8.2K 5% 1/6W	
R	931	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R	932	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R	933	QRD161J-272	C.RESISTOR	2.7K 5% 1/6W	
R	934	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R	941	QRD161J-471	C.RESISTOR	470 5% 1/6W	
R	942	QRD161J-223	C.RESISTOR	22K 5% 1/6W	
R	943	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R	944	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R	991	QRD161J-472Y	C.RESISTOR	4.7K 5% 1/6W	
RA103		QRD161J-560	C.RESISTOR	56 5% 1/6W	
RA104		QRD161J-123Y	C.RESISTOR	12K 5% 1/6W	
RA105		QRD161J-153	C.RESISTOR	15K 5% 1/6W	
RA106		QRD161J-562	C.RESISTOR	5.6K 5% 1/6W	
RA107		QRD161J-153	C.RESISTOR	15K 5% 1/6W	
RA108		QRD161J-183	C.RESISTOR	18K 5% 1/6W	
RA111		QRD161J-472Y	C.RESISTOR	4.7K 5% 1/6W	
RA121		QRD161J-273	C.RESISTOR	27K 5% 1/6W	
RA122		QRD161J-823	C.RESISTOR	82K 5% 1/6W	
RA123		QRD161J-681	C.RESISTOR	680 5% 1/6W	
RA124		QRD161J-821	C.RESISTOR	820 5% 1/6W	
RA125		QRD161J-560	C.RESISTOR	56 5% 1/6W	
RA126		QRD161J-561	C.RESISTOR	560 5% 1/6W	
RA127		QRD161J-820	C.RESISTOR	82 5% 1/6W	
RA128		QRD161J-472Y	C.RESISTOR	4.7K 5% 1/6W	
RA129		QRD161J-103	C.RESISTOR	10K 5% 1/6W	
RA130		QRD161J-472Y	C.RESISTOR	4.7K 5% 1/6W	
RA131		QRD161J-392	C.RESISTOR	3.9K 5% 1/6W	
RA132		QRD161J-333	C.RESISTOR	33K 5% 1/6W	
RA133		QRD161J-103	C.RESISTOR	10K 5% 1/6W	
RA141		QRD161J-562	C.RESISTOR	5.6K 5% 1/6W	
RA203		QRD161J-560	C.RESISTOR	56 5% 1/6W	
RA204		QRD161J-123Y	C.RESISTOR	12K 5% 1/6W	
RA205		QRD161J-153	C.RESISTOR	15K 5% 1/6W	
RA206		QRD161J-562	C.RESISTOR	5.6K 5% 1/6W	
RA207		QRD161J-153	C.RESISTOR	15K 5% 1/6W	
RA208		QRD161J-183	C.RESISTOR	18K 5% 1/6W	
RA211		QRD161J-472Y	C.RESISTOR	4.7K 5% 1/6W	
RA221		QRD161J-273	C.RESISTOR	27K 5% 1/6W	
RA222		QRD161J-823	C.RESISTOR	82K 5% 1/6W	
RA223		QRD161J-681	C.RESISTOR	680 5% 1/6W	
RA224		QRD161J-821	C.RESISTOR	820 5% 1/6W	
RA225		QRD161J-560	C.RESISTOR	56 5% 1/6W	
RA226		QRD161J-561	C.RESISTOR	560 5% 1/6W	
RA227		QRD161J-820	C.RESISTOR	82 5% 1/6W	
RA228		QRD161J-472Y	C.RESISTOR	4.7K 5% 1/6W	
RA229		QRD161J-103	C.RESISTOR	10K 5% 1/6W	
RA230		QRD161J-472Y	C.RESISTOR	4.7K 5% 1/6W	
RA231		QRD161J-392	C.RESISTOR	3.9K 5% 1/6W	
RA232		QRD161J-333	C.RESISTOR	33K 5% 1/6W	
RA233		QRD161J-103	C.RESISTOR	10K 5% 1/6W	
RA241		QRD161J-562	C.RESISTOR	5.6K 5% 1/6W	

BLOCK NO. 01111111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R	228	QRD161J-105	C.RESISTOR	1.0M 5% 1/6W	
R	241	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
R	242	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
R	243	QRD161J-393	C.RESISTOR	39K 5% 1/6W	
R	246	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R	251	QRD161J-273	C.RESISTOR	27K 5% 1/6W	
R	252	QRD161J-183	C.RESISTOR	18K 5% 1/6W	
R	253	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
R	255	QRD161J-273	C.RESISTOR	27K 5% 1/6W	
R	257	QRD161J-682	C.RESISTOR	6.8K 5% 1/6W	
R	258	QRD161J-273	C.RESISTOR	27K 5% 1/6W	
R	261	QRD161J-332	C.RESISTOR	3.3K 5% 1/6W	
R	281	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R	283	QRD161J-122	C.RESISTOR	1.2K 5% 1/6W	
R	284	QRD161J-472Y	C.RESISTOR	4.7K 5% 1/6W	
R	285	QRD161J-331Y	C.RESISTOR	330 5% 1/6W	
R	286	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R	287	QRD161J-475	C.RESISTOR	4.7M 5% 1/6W	
R	288	QRD161J-475	C.RESISTOR	4.7M 5% 1/6W	
R	321	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R	322	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R	323	QRD161J-2R2	C.RESISTOR	2.2 5% 1/6W	
R	324	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
R	341	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R	342	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R	343	QRD161J-221	C.RESISTOR	220 5% 1/6W	
R	366	QRD161J-332	C.RESISTOR	3.3K 5% 1/6W	
R	367	QRD161J-332	C.RESISTOR	3.3K 5% 1/6W	
R	368	QRD161J-332	C.RESISTOR	3.3K 5% 1/6W	
R	369	QRD161J-332	C.RESISTOR	3.3K 5% 1/6W	
R	370	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R	371	QRD161J-680	C.RESISTOR	68 5% 1/6W	
R	372	QRD161J-164YT	C.RESISTOR	160K 5% 1/6W	
R	383	QRD161J-682	C.RESISTOR	6.8K 5% 1/6W	
R	384	QRD161J-475	C.RESISTOR	4.7M 5% 1/6W	
R	385	QRD161J-183	C.RESISTOR	18K 5% 1/6W	
R	386	QRD161J-333	C.RESISTOR	33K 5% 1/6W	
R	387	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R	388	QRD161J-182	C.RESISTOR	1.8K 5% 1/6W	
R	389	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R	901	QRD161J-471	C.RESISTOR	470 5% 1/6W	
R	902	QRD161J-564	C.RESISTOR	560K 5% 1/6W	
R	903	QRD161J-471	C.RESISTOR	470 5% 1/6W	
R	904	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
R	905	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R	906	QRD161J-223	C.RESISTOR	22K 5% 1/6W	
R	907	QRD161J-101	C.RESISTOR	100 5% 1/6W	
R	908	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R	909	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R	910	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
R	911	QRD161J-182	C.RESISTOR	1.8K 5% 1/6W	
R	912	QRD161J-332	C.RESISTOR	3.3K 5% 1/6W	
R	921	QRD161J-271	C.RESISTOR	270 5% 1/6W	
R	923	QRD161J-471	C.RESISTOR	470 5% 1/6W	
R	924	QRD161J-224	C.RESISTOR	220K 5% 1/6W	

CD amplifier P.C. board

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 501	QCB11HK-821Y	C.CAPACITOR	820PF 10% 50V	
C 503	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
C 504	QETC1CM-106Z	E.CAPACITOR	10MF 20% 16V	
C 511	QCSB1HK-3R9	C.CAPACITOR	3.9PF 10% 50V	
C 512	QCSB1HJ-270Y	C.CAPACITOR	27PF 5% 50V	
C 513	QFLC1HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
C 514	QFN31HJ-103Z	M.CAPACITOR	.010MF 5% 50V	
C 521	QCB11HK-331Y	C.CAPACITOR	330PF 10% 50V	
C 522	QFLC1HJ-473ZM	TF.CAPACITOR	.047MF 5% 50V	
C 523	QFV71HJ-134Z	TF.CAPACITOR	.13MF 5% 50V	
C 524	QEN61ER-475ZM	E.CAPACITOR	4.7MF +30% -10%	
C 529	QETC1AM-336ZM	E.CAPACITOR	33MF 20% 10V	
C 531	QCVB1CM-822Y	C.CAPACITOR	8200PF 20% 16V	
C 541	QCB11HK-101Y	C.CAPACITOR	100PF 10% 50V	
C 542	QFN31HJ-103Z	M.CAPACITOR	.010MF 5% 50V	
C 543	QFN31HJ-393Z	M.CAPACITOR	.039MF 5% 50V	
C 545	QEN61HM-105Z	E.CAPACITOR	1.0MF 20% 50V	
C 546	QFLC1HJ-223ZM	M.CAPACITOR	.022MF 5% 50V	
C 561	QETC1AM-476Z	E.CAPACITOR	47MF 20% 10V	
C 562	QETC1HM-475Z	E.CAPACITOR	4.7MF 20% 50V	
C 581	QETC1AM-477ZM	E.CAPACITOR	470MF 20% 10V	
C 582	QETC1AM-107Z	E.CAPACITOR	100MF 20% 10V	
C 591	VCP0012-105Z	C.CAPACITOR	.10MF 20% 25V	
C 592	VCP0012-105Z	C.CAPACITOR	.10MF 20% 25V	
C 593	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
C 599	QETC1AM-107Z	E.CAPACITOR	100MF 20% 10V	
C 601	QCS11HJ-100	C.CAPACITOR	FOR CRYSTAL	
C 602	QCS11HJ-100	C.CAPACITOR	FOR CRYSTAL	
C 603	QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V	
C 604	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
C 605	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
C 606	QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V	
C 611	QCS11HJ-101	C.CAPACITOR	100PF 5% 50V	
C 612	QFN31HJ-103Z	M.CAPACITOR	.010MF 5% 50V	
C 613	QFN31HJ-103Z	M.CAPACITOR	.010MF 5% 50V	
C 614	QFN31HJ-332Z	M.CAPACITOR	3300PF 5% 50V	
C 615	QFN31HJ-332Z	M.CAPACITOR	3300PF 5% 50V	
C 631	QETC1AM-107Z	E.CAPACITOR	100MF 20% 10V	
C 632	QETC1AM-107Z	E.CAPACITOR	100MF 20% 10V	
C 633	QCB11HK-471Y	C.CAPACITOR	470PF 10% 50V	
C 651	QETC1AM-107Z	E.CAPACITOR	100MF 20% 10V	
C 652	QETC1CM-226ZM	E.CAPACITOR	22MF 20% 16V	
C 661	QCB11HK-271Y	C.CAPACITOR	270PF 10% 50V	
C 662	QCB11HK-271Y	C.CAPACITOR	270PF 10% 50V	
C 663	QCB11HK-121Y	C.CAPACITOR	120PF 10% 50V	
C 669	QETC1EM-335ZM	E.CAPACITOR	3.3MF 20% 25V	
C 671	QCB11HK-271Y	C.CAPACITOR	270PF 10% 50V	
C 672	QCB11HK-271Y	C.CAPACITOR	270PF 10% 50V	
C 673	QCB11HK-121Y	C.CAPACITOR	120PF 10% 50V	
C 679	QETC1EM-335ZM	E.CAPACITOR	3.3MF 20% 25V	
CN501	VMC0272-015	CONNECTOR	TO PICK UP	
CN601	VMC0163-011	CONNECTOR	TO CPU	
D 691	MA700A	DIODE I/M	SERVO LSI	
IC501	TA8191F	I.C.	POWER DRIVER	
IC502	BA6298FP	I.C.		

BLOCK NO. 01

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
RA301	QRD161J-331V	C.RESISTOR	330 5% 1/6W	
RA302	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
RA303	QRD161J-333	C.RESISTOR	33K 5% 1/6W	
RA305	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
RA306	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
RA307	QRD161J-333	C.RESISTOR	33K 5% 1/6W	
RA315	QRD161J-221	C.RESISTOR	220 5% 1/6W	
RA316	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
RA321	QRD161J-272	C.RESISTOR	2.7K 5% 1/6W	
RA322	QRD161J-121	C.RESISTOR	120 5% 1/6W	
RA322	QRD161J-475	C.RESISTOR	4.7K 5% 1/6W	
RA323	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
RA327	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
RA341	QRD14CJ-470SX	C.RESISTOR	47 5% 1/4W	
RA342	QRD161J-101	C.RESISTOR	100 5% 1/6W	
RA343	QRD161J-3R9Y	C.RESISTOR	3.9 5% 1/6W	
RA344	QRD161J-153	C.RESISTOR	15K 5% 1/6W	
RA345	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
RA347	QRD161J-123V	C.RESISTOR	12K 5% 1/6W	
RA348	QRD161J-332	C.RESISTOR	3.3K 5% 1/6W	
RA350	QRD161J-182	C.RESISTOR	1.8K 5% 1/6W	
RA351	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
RA352	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
RA353	QRD161J-394	C.RESISTOR	390K 5% 1/6W	
RA354	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
RA361	QRD161J-272	C.RESISTOR	2.7K 5% 1/6W	
RA363	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
RE 1	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
RE 2	QRD161J-332	C.RESISTOR	3.3K 5% 1/6W	
RE 3	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
RT 01	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
RT 02	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
RT 03	QRD161J-223	C.RESISTOR	22K 5% 1/6W	
RT 04	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
RT 05	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
RT 06	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
RT 07	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
RT 08	QRD161J-223	C.RESISTOR	22K 5% 1/6W	
RT 09	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
RZ101	QRD161J-333	C.RESISTOR	33K 5% 1/6W	
RZ103	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
RZ201	QRD161J-333	C.RESISTOR	33K 5% 1/6W	
RZ203	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
T 001	VQ17F12-110	I.F.T.	FM IF	
T 002	VQ17A21-107	I.F.T.	FM IF	
TC 02	QAT3722-300ZM	T.CAPACITOR	MW RF	
TC 03	QAT3722-300ZM	T.CAPACITOR	LW RF	
TP 01	VM20015-002	POST PIN	TO ROD ANT	
VRA41	QVZ3523-203AZ	V.RESISTOR I/M		
VRA61	QVZ3523-102AZ	V.RESISTOR		
X 001	V473124-A0	CRYSTAL		

BLOCK NO. 02

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
IC601	TC9236AF	I.C.	1 CHIP PROCESSE		
IC603	TC9278FS	I.C.	D/A CONVERTER		
IC604	BA15218N	I.C.	L.P.F		
K 693	VQ20048-009	INDUCTOR I/M			
L 691	VQ0018-100	INDUCTOR			
L 692	VQ0018-100	INDUCTOR			
L 693	VQ0028-100Z	INDUCTOR I/M			
Q 501	2SA952(L,K)	TRANSISTOR I/M			
Q 581	2SA952(L,K)	TRANSISTOR I/M	5V REGULATOR		
Q 591	2SA952(L,K)	TRANSISTOR I/M			
R 501	QRD161J-124	C.RESISTOR	120K 5% 1/6W		
R 502	QRD161J-103	C.RESISTOR	10K 5% 1/6W		
R 504	QRD161J-202	C.RESISTOR	2.0K 5% 1/6W		
R 505	QRD161J-100	C.RESISTOR	10.5K 1/6W		
R 506	QRD161J-101	C.RESISTOR	100 5% 1/6W		
R 511	QRD161J-183	C.RESISTOR	18K 5% 1/6W		
R 512	QRD161J-392	C.RESISTOR	3.9K 5% 1/6W		
R 513	QRD161J-332	C.RESISTOR	3.3K 5% 1/6W		
R 514	QRD161J-472Y	C.RESISTOR	4.7K 5% 1/6W		
R 515	QRD161J-103	C.RESISTOR	10K 5% 1/6W		
R 516	QRD161J-103	C.RESISTOR	10K 5% 1/6W		
R 517	QRD161J-202	C.RESISTOR	2.0K 5% 1/6W		
R 521	QRD161J-154	C.RESISTOR	150K 5% 1/6W		
R 522	QRD161J-392	C.RESISTOR	3.9K 5% 1/6W		
R 523	QRD161J-472Y	C.RESISTOR	4.7K 5% 1/6W		
R 524	QRD161J-331Y	C.RESISTOR	330 5% 1/6W		
R 525	QRD161J-472Y	C.RESISTOR	4.7K 5% 1/6W		
R 529	QRD161J-562	C.RESISTOR	5.6K 5% 1/6W		
R 531	QRD161J-473	C.RESISTOR	47K 5% 1/6W		
R 532	QRD161J-104	C.RESISTOR	100K 5% 1/6W		
R 533	QRD161J-153	C.RESISTOR	15K 5% 1/6W		
R 541	QRD161J-123Y	C.RESISTOR	12K 5% 1/6W		
R 542	QRD161J-332	C.RESISTOR	3.3K 5% 1/6W		
R 543	QRD161J-473	C.RESISTOR	47K 5% 1/6W		
R 544	QRD161J-223	C.RESISTOR	22K 5% 1/6W		
R 545	QRD161J-103	C.RESISTOR	10K 5% 1/6W		
R 548	QRD161J-153	C.RESISTOR	15K 5% 1/6W		
R 549	QRD161J-821	C.RESISTOR	820 5% 1/6W		
R 550	QRD161J-104	C.RESISTOR	100K 5% 1/6W		
R 551	QRD161J-223	C.RESISTOR	22K 5% 1/6W		
R 552	QRD161J-562	C.RESISTOR	5.6K 5% 1/6W		
R 553	QRD161J-821	C.RESISTOR	820 5% 1/6W		
R 555	QRD161J-332	C.RESISTOR	3.3K 5% 1/6W		
R 559	QRD161J-125	C.RESISTOR	1.2M 5% 1/6W		
R 561	QRD161J-562	C.RESISTOR	5.6K 5% 1/6W		
R 562	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W		
R 563	QRD161J-152	C.RESISTOR	1.5K 5% 1/6W		
R 564	QRD161J-332	C.RESISTOR	3.3K 5% 1/6W		
R 565	QRD161J-683Y	C.RESISTOR	68K 5% 1/6W		
R 566	QRD161J-273	C.RESISTOR	27K 5% 1/6W		
R 583	QRD161J-101	C.RESISTOR	100 5% 1/6W		
R 611	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W		
R 612	QRD161J-103	C.RESISTOR	10K 5% 1/6W		
R 613	QRD161J-224	C.RESISTOR	220K 5% 1/6W		
R 614	QRD161J-473	C.RESISTOR	47K 5% 1/6W		

BLOCK NO. 02

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 615	QRD161J-225	C.RESISTOR	2.2M 5% 1/6W		
R 616	QRD161J-333	C.RESISTOR	33K 5% 1/6W		
R 631	QRD161J-820	C.RESISTOR	82 5% 1/6W		
R 632	QRD161J-820	C.RESISTOR	82 5% 1/6W		
R 635	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W		
R 638	QRD161J-331Y	C.RESISTOR	330 5% 1/6W		
R 639	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W		
R 641	QRD161J-473	C.RESISTOR	47K 5% 1/6W		
R 651	QRD161J-820	C.RESISTOR	82 5% 1/6W		
R 652	QRD161J-473	C.RESISTOR	47K 5% 1/6W		
R 653	QRD161J-473	C.RESISTOR	47K 5% 1/6W		
R 661	QRD161J-123Y	C.RESISTOR	12K 5% 1/6W		
R 662	QRD161J-123Y	C.RESISTOR	12K 5% 1/6W		
R 663	QRD161J-333	C.RESISTOR	33K 5% 1/6W		
R 664	QRD161J-333	C.RESISTOR	33K 5% 1/6W		
R 665	QRD161J-123Y	C.RESISTOR	12K 5% 1/6W		
R 666	QRD161J-123Y	C.RESISTOR	12K 5% 1/6W		
R 669	QRD161J-332	C.RESISTOR	3.3K 5% 1/6W		
R 671	QRD161J-123Y	C.RESISTOR	12K 5% 1/6W		
R 672	QRD161J-123Y	C.RESISTOR	12K 5% 1/6W		
R 673	QRD161J-333	C.RESISTOR	33K 5% 1/6W		
R 674	QRD161J-333	C.RESISTOR	33K 5% 1/6W		
R 675	QRD161J-123Y	C.RESISTOR	12K 5% 1/6W		
R 676	QRD161J-123Y	C.RESISTOR	12K 5% 1/6W		
R 679	QRD161J-332	C.RESISTOR	3.3K 5% 1/6W		
VR501	QVZ3523-154AZ	V CRYSTAL			
X 601	VCX5016-934V		16.9344MHZ		

■ System micon. control P.C. board

BLOCK NO. 03

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C	701	QCVB1CM-103Y	C. CAPACITOR	.010MF 20% 16V	
C	702	QEK61HM-105Z	E. CAPACITOR	1.0MF 20% 50V	
C	703	QEK61HM-105Z	E. CAPACITOR	1.0MF 20% 50V	
C	704	QEK61HM-105Z	E. CAPACITOR	1.0MF 20% 50V	
C	705	QEK61HM-105Z	E. CAPACITOR	1.0MF 20% 50V	
C	802	QCVB1CM-103Y	C. CAPACITOR	.010MF 20% 16V	
C	803	QCT30CH-150Y	C. CAPACITOR	15PF 5% 50V	
C	804	QCT30CH-150Y	C. CAPACITOR	15PF 5% 50V	
C	807	QCB81HK-151Y	C. CAPACITOR	150PF 10% 50V	
C	808	QCT30CH-150Y	C. CAPACITOR	15PF 5% 50V	
C	809	QCT30CH-150Y	C. CAPACITOR	15PF 5% 50V	
C	811	QEK61HM-107Z	E. CAPACITOR	100MF 20% 10V	
C	812	QCVB1CM-103Y	C. CAPACITOR	.010MF 20% 16V	
C	813	QCVB1CM-103Y	C. CAPACITOR	.010MF 20% 16V	
C	814	QEK41CM-476	E. CAPACITOR	47MF 20% 16V	
C	815	QEK61HM-105Z	E. CAPACITOR	1.0MF 20% 50V	
C	816	QCVB1CM-103Y	C. CAPACITOR	.010MF 20% 16V	
CA	801	VCR002A-001	C. NETWORK		
CM	01	QEK61AM-107Z	E. CAPACITOR	100MF 20% 10V	
CM	02	QCB81HK-151Y	C. CAPACITOR	150PF 10% 50V	
CM	03	QCB81HK-151Y	C. CAPACITOR	150PF 10% 50V	
CM	04	QCB81HK-102Y	C. CAPACITOR	1000PF 10% 50V	
CM	05	QCB81HK-151Y	C. CAPACITOR	150PF 10% 50V	
CM	07	QCVB1CM-103Y	C. CAPACITOR	.010MF 20% 16V	
CM	08	QCVB1CM-103Y	C. CAPACITOR	.010MF 20% 16V	
CM	09	QCVB1CM-103Y	C. CAPACITOR	.010MF 20% 16V	
CM	10	QEK61HM-475Z	E. CAPACITOR	4.7MF 20% 25V	
CM	11	QCB81HK-151Y	C. CAPACITOR	150PF 10% 50V	
CM	12	QCB81HK-151Y	C. CAPACITOR	150PF 10% 50V	
CM	15	QCT30CH-150Y	C. CAPACITOR	15PF 5% 50V	
CM	16	QCT30CH-150Y	C. CAPACITOR	15PF 5% 50V	
CM	17	QCT25CH-510Z	C. CAPACITOR	51PF 5% 50V	
CM	18	QCT25CH-510Z	C. CAPACITOR	51PF 5% 50V	
CM	19	QCB81HK-102Y	C. CAPACITOR	1000PF 10% 50V	
CM	20	QCB81HK-102Y	C. CAPACITOR	1000PF 10% 50V	
CM	21	QCB81HK-151Y	C. CAPACITOR	150PF 10% 50V	
CM	22	QCB81HK-151Y	C. CAPACITOR	150PF 10% 50V	
CM	23	QCB81HK-151Y	C. CAPACITOR	150PF 10% 50V	
CM	31	QCB81HK-151Y	C. CAPACITOR	150PF 10% 50V	
CM	32	QCB81HK-151Y	C. CAPACITOR	150PF 10% 50V	
CM	87	QEK61CM-226ZM	E. CAPACITOR	22MF 20% 16V	
CM	99	QETC1AM-477ZN	E. CAPACITOR	470MF 20% 10V	
CN	801	VMC0192-P09	CONNECTOR	MAIN	
CN	802	VMC0192-P09	CONNECTOR	MAIN	
CN	803	VMC0192-P09	CONNECTOR	MAIN	
CN	804	VMC0192-P09	CONNECTOR	MAIN	
CN	805	VMC0163-R11	CONNECTOR	CD	
D	801	MA719	DIODE I/M		
D	802	1SS133	DIODE I/M		
D	803	1SS133	DIODE I/M		
D	804	1SS133	DIODE I/M		
D	805	1SS133	DIODE I/M		
D	806	1SS133	DIODE I/M		
D	807	MT73.6JB	ZE DIODE I/M		
D	808	1SS133	DIODE I/M		

BLOCK NO. 03

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
D	811	SLR-34MG142	LED	POWER(GREEN)	
D	812	SLR-34VC3F	LED	STANDBY(RED)	
D	813	SLR-305VCA47	LED I/M	AHB LED	
D	814	SLR-305VCA47	LED I/M		
D	815	SLR-305VCA47	LED I/M		
DM	01	1SS133	DIODE I/M		
DM	02	1SS133	DIODE I/M		
DM	03	1SS133	DIODE I/M		
DM	04	1SS133	DIODE I/M		
DM	05	1SS133	DIODE I/M		
DM	06	1SS133	DIODE I/M		
DM	07	1SS133	DIODE I/M		
DM	86	MTZJ6.2B	Z DIODE		
IC	701	BA10324	IC		
IC	801	MN1871610JCK2	IC	U-COM	
IC	802	PST529C	IC	B-UP	
IC	803	PST529H-T	IC	RESET	
IC	804	SPS-420-1	RM SENSOR	RM	
L	801	VGP0028-100Z	INDUCTOR I/M		
L	802	VGP0018-4R7	INDUCTOR I/M		
L	803	VGP0018-4R7	INDUCTOR I/M		
L	804	VGP0018-4R7	INDUCTOR I/M		
LM	01	VGP0018-4R7	INDUCTOR I/M		
LM	02	VGP0018-4R7	INDUCTOR I/M		
LM	04	VGP0018-4R7	INDUCTOR I/M		
PL	801	FSGZ0001-001	LAMP		
PL	802	FSGZ0001-001	LAMP		
Q	801	2SC945L(P-A)	TRANSISTOR I/M		
Q	802	2SC945L(P-A)	TRANSISTOR I/M		
Q	803	2SA952(L-K)	TRANSISTOR I/M		
Q	804	2SA952(L-K)	TRANSISTOR I/M		
Q	805	2SA952(L-K)	TRANSISTOR I/M		
Q	806	2SA952(L-K)	TRANSISTOR I/M		
Q	807	2SA952(L-K)	TRANSISTOR I/M		
Q	808	2SA952(L-K)	TRANSISTOR I/M		
QM	86	DTC123YS	TRANSISTOR	5.6K 5% 1/6W	
R	701	QRD167J-562	C. RESISTOR	5.6K 5% 1/6W	
R	702	QRD167J-562	C. RESISTOR	5.6K 5% 1/6W	
R	703	QRD167J-562	C. RESISTOR	5.6K 5% 1/6W	
R	704	QRD167J-562	C. RESISTOR	5.6K 5% 1/6W	
R	711	QRD161J-103	C. RESISTOR	10K 5% 1/6W	
R	713	QRD161J-473	C. RESISTOR	47K 5% 1/6W	
R	714	QRD161J-104	C. RESISTOR	100K 5% 1/6W	
R	716	QRD161J-104	C. RESISTOR	100K 5% 1/6W	
R	717	QRD161J-104	C. RESISTOR	100K 5% 1/6W	
R	722	QRD161J-332	C. RESISTOR	3.3K 5% 1/6W	
R	723	QRD161J-152	C. RESISTOR	1.5K 5% 1/6W	
R	724	QRD161J-224	C. RESISTOR	220K 5% 1/6W	
R	801	QRD161J-104	C. RESISTOR	100K 5% 1/6W	
R	802	QRD161J-104	C. RESISTOR	100K 5% 1/6W	
R	803	QRD161J-104	C. RESISTOR	100K 5% 1/6W	
R	804	QRD161J-223	C. RESISTOR	22K 5% 1/6W	
R	805	QRD161J-681	C. RESISTOR	680 5% 1/6W	
R	806	QRD161J-681	C. RESISTOR	680 5% 1/6W	

BLOCK NO. 03111111

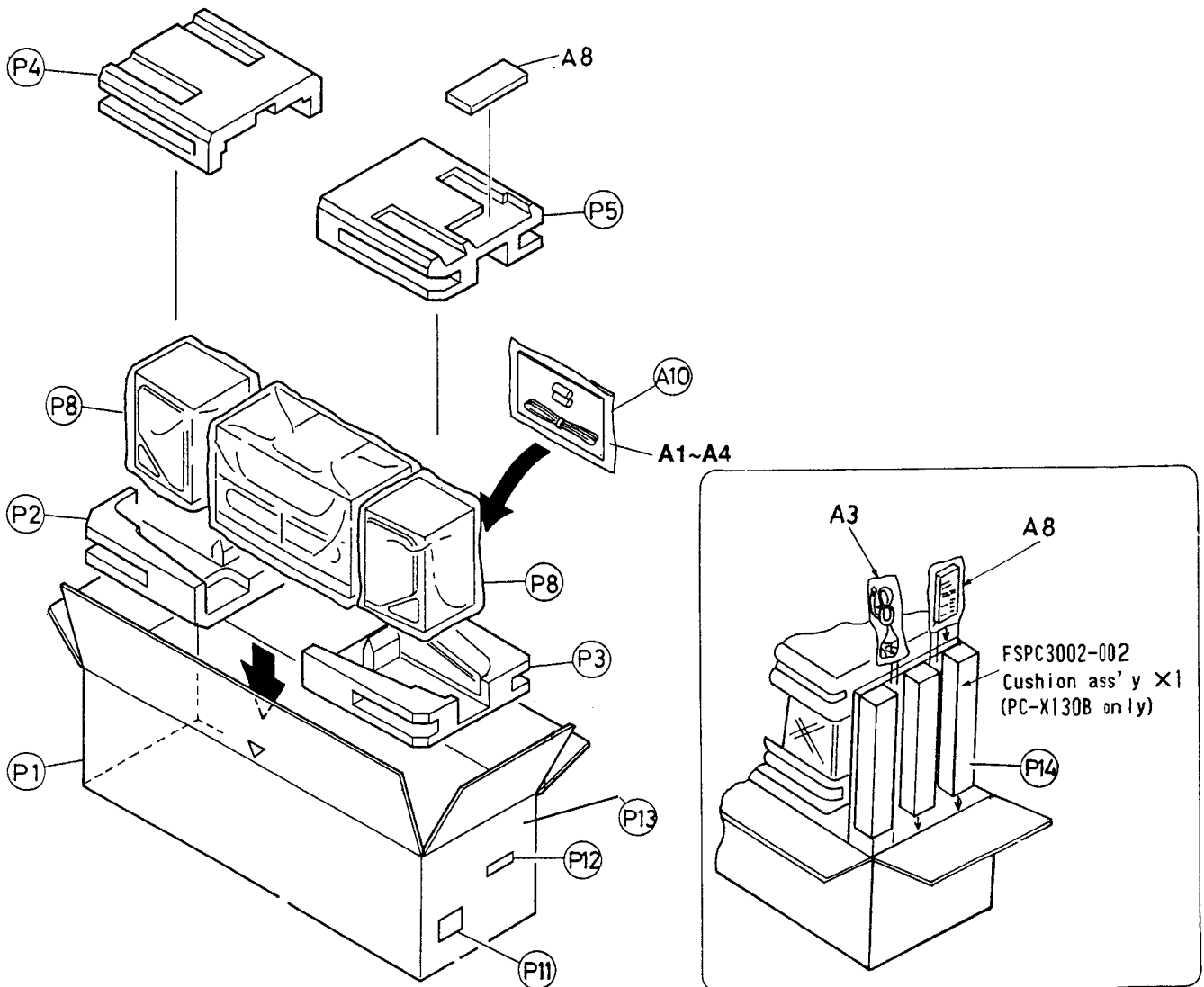
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 865	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 866	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 867	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 868	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 869	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 870	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 871	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R 872	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 873	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 874	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 875	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 876	QRD161J-332	C.RESISTOR	3.3K 5% 1/6W	
R 877	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R 878	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 879	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 880	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 881	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 882	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 883	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 884	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 885	QRD161J-472Y	C.RESISTOR	4.7K 5% 1/6W	
R 886	QRD161J-472Y	C.RESISTOR	4.7K 5% 1/6W	
R 887	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R 888	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 889	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R 890	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 891	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 892	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 893	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 896	QRD161J-104	C.RESISTOR	BAND1(H)	
R 897	QRD161J-104	C.RESISTOR	BAND2(H)	
R 898	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
RM 01	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
RM 02	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
RM 03	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
RM 04	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
RM 05	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
RM 06	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
RM 07	QRD161J-101	C.RESISTOR	100 5% 1/6W	
RM 08	QRD161J-474	C.RESISTOR	470K 5% 1/6W	
RM 09	QRD161J-474	C.RESISTOR	470K 5% 1/6W	
RM 10	QRD161J-272	C.RESISTOR	2.7K 5% 1/6W	
RM 11	QRD161J-101	C.RESISTOR	100 5% 1/6W	
RM 12	QRD161J-224	C.RESISTOR	220K 5% 1/6W	
RM 15	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
RM 16	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
RM 17	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
RM 86	QRD161J-221	C.RESISTOR	220 5% 1/6W	
RM 87	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
S 801	QSQ4H11-V02Z	TACT SWITCH	POWER	
S 802	QSQ4H11-V02Z	TACT SWITCH	FB	
S 803	QSQ4H11-V02Z	TACT SWITCH	FF	
S 804	QSQ4H11-V02Z	TACT SWITCH	STOP/CLEAR	
S 805	QSQ4H11-V02Z	TACT SWITCH	PLAY/PAUSE	
S 806	QSQ4H11-V02Z	TACT SWITCH	DOWN	

BLOCK NO. 03111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 807	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 808	QRD161J-271	C.RESISTOR	270 5% 1/6W	
R 809	QRD161J-683Y	C.RESISTOR	68K 5% 1/6W	
R 811	QRD161J-683Y	C.RESISTOR	68K 5% 1/6W	
R 812	QRD161J-221	C.RESISTOR	220 5% 1/6W	
R 813	QRD161J-221	C.RESISTOR	220 5% 1/6W	
R 814	QRD161J-221	C.RESISTOR	220 5% 1/6W	
R 815	QRD161J-682	C.RESISTOR	6.8K 5% 1/6W	
R 816	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 817	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R 818	QRD161J-153	C.RESISTOR	15K 5% 1/6W	
R 819	QRD161J-683Y	C.RESISTOR	68K 5% 1/6W	
R 820	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 821	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R 822	QRD161J-153	C.RESISTOR	15K 5% 1/6W	
R 823	QRD161J-683Y	C.RESISTOR	68K 5% 1/6W	
R 824	QRD161J-682	C.RESISTOR	6.8K 5% 1/6W	
R 825	QRD161J-562	C.RESISTOR	5.6K 5% 1/6W	
R 826	QRD161J-822	C.RESISTOR	8.2K 5% 1/6W	
R 827	QRD161J-153	C.RESISTOR	15K 5% 1/6W	
R 828	QRD161J-223	C.RESISTOR	22K 5% 1/6W	
R 829	QRD161J-623	C.RESISTOR	62K 5% 1/6W	
R 831	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 832	QRD161J-223	C.RESISTOR	22K 5% 1/6W	
R 833	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 834	QRD161J-223	C.RESISTOR	22K 5% 1/6W	
R 835	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 836	QRD161J-223	C.RESISTOR	22K 5% 1/6W	
R 837	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R 838	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R 839	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R 840	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
R 841	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
R 842	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R 843	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R 844	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R 845	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R 846	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R 847	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R 848	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R 849	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 850	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
R 851	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
R 852	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
R 853	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
R 854	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 855	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 856	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 858	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 859	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 860	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 861	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 862	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 863	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 864	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	

[illegible]

13. Illustration of Packing and Parts List



■ Packing parts list

BLOCK NO. M5MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 1	FSPC7001-001	CARTON		1		
	P 2	FSPH1001-001	CUSHION(BOTT,L)		1		
	P 3	FSPH1001-002	CUSHION(BOTT,R)		1		
	P 4	FSPH1002-001	CUSHION(UP,L)		1		
	P 5	FSPH1002-002	CUSHION(UP,R)		1		
	P 7	E300196-031B	ENVELOPE		1		
	P 8	VPE3020-018	POLY BAG	400X450	2		
	P 10	VPE3020-007	POLY BAG	INSTRUCTIONS	1		
	P 11	VND3044-004	NUMBER LABEL		1	B	
		VND3044-003	NUMBER LABEL		1	E	
		VND3044-005	NUMBER LABEL		1	G	
		VND3044-001	NUMBER LABEL		1	GI,EN	
	P 12	FSND3002-001	BAR CODE LABEL		1	E,B,G,GI,EN	
	P 13	QZLA001-012	MARK	GREEN POINT	1	E,G	
	P 14	FSPC3002-002	CUSHION ASS'Y	P.CORD,REMOCON	1	B	

14. Accessories

BLOCK NO. M6MM

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
A 1	VNN7001-261S	INSTRUCTIONS		1	E,G,EN	
	VNN7001-251S	INSTRUCTIONS		1	B,GI,EN	
	VNN7001-271S	INSTRUCTIONS		1	EN	
A 2	BT20060	WARRANTY CARD		1	B	
	BT-20066A	WARRANTY CARD		1	B,G	
	BT-20135	WARRANTY CARD		1	G	
A 3	E43486-340B	SAFETY SHEET	8NOJI	1	B	
A 4	QMP39F0-183E	POWER CORD		1	E,G,GI	
	QMP5520-183EBS	POWER CORD		1	B	
A 4	PECA0786	BATTERY		2		
A 8	FSGR0001-001	REMOCON		1		

JVC

VICTOR COMPANY OF JAPAN, LIMITED.
PERSONAL AUDIO PRODUCTS DIVISION

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